

WATER MAIN REPLACEMENT PROJECT

to serve

EAST HIGHLANDS

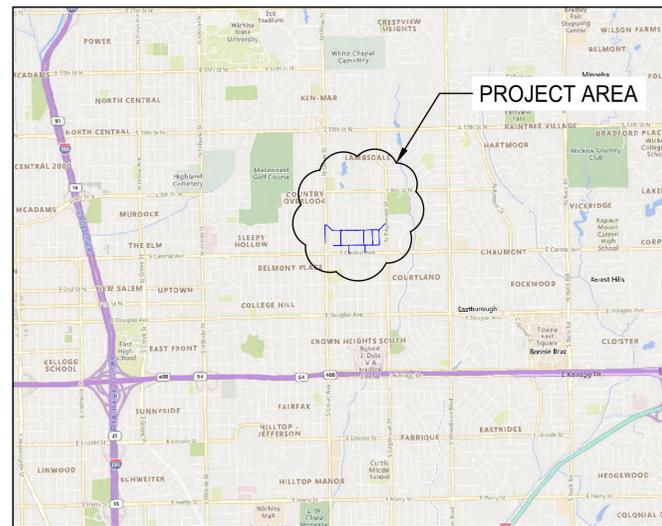
CITY OF WICHITA, KANSAS

PAUL, GUNZELMAN, P.E. - CITY ENGINEER

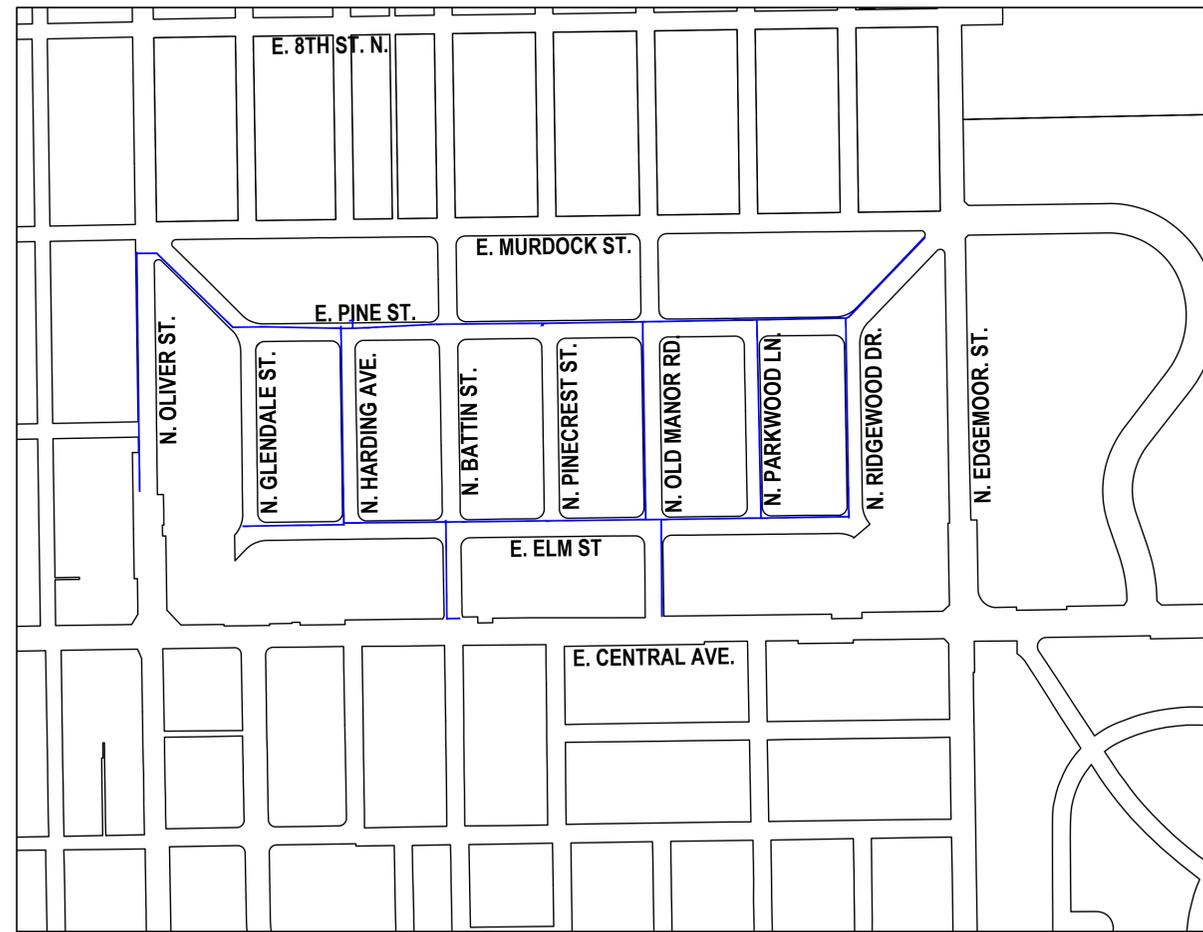
PROJECT NO. 448-2021-017905

MUNIS NUMBER: W8034

O.R.G. NUMBER: 45250018



VICINITY MAP



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09	N. OLIVER ST. 4+50.00 - 8+50.00
10	E. PINE ST. 0+00.00 - 4+50.00
11	E. PINE ST. 4+50.00 - 9+50.00
12	E. PINE ST. 9+50.00 - 14+50.00
13	E. PINE ST. 14+50.00 - 19+50.00
14	E. PINE ST. 24+50.00 - 28+50.00
15	E. PINE ST. 19+50.00 - 24+50.01
16	N. HARDING AVE. 0+00.00 - 4+50.00
17	N. HARDING AVE. 4+50.00 - 7+03.86
18	N. OLD MANOR RD. 0+00.00 - 5+00.00
19	N. OLD MANOR RD. 5+00.00 - 10+00.00
20	N. PARKWOOD LN. 0+00.00 - 4+50.00
21	N. PARKWOOD LN. 4+50.00 - 7+03.86
22	N. RIDGEWOOD DR. 0+00.00 - 4+50
23	N. RIDGEWOOD DR. 4+50.00 - 7+20
24	E. ELM ST. 0+00.00 - 4+50.00
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28	E. ELM ST. 19+50.00 - 22+20.00
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SEPTEMBER 2025

WSP USA
 245 N WACO STREET, SUITE 100
 WICHITA, KS 67202
 PHONE: (316) 337-5550



COVER SHEET
SHEET INDEX

DATE: SEPT. 2025

PROJ.: 8275000434

SHEET:

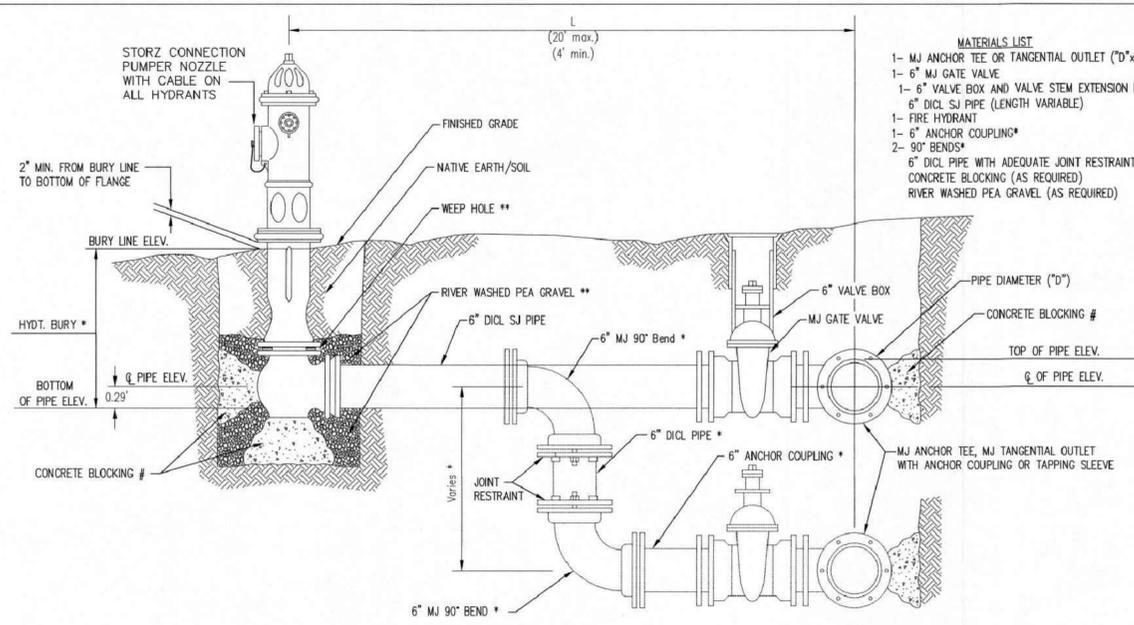
01

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PARCEL NUMBER	LINE	SHEET NUMBER	ADDRESS	METER NUMBER	ACCOUNT NUMBER	TAP SIZE
1	2	15	5518 E PINE ST	47114272	51371-100	0.75
2	2	15	5511 E PINE ST	45585998	33754-100	0.75
3	2	15	5502 E PINE ST	44476363	40051-100	-
4	2	14	5430 E PINE ST	47115199	37302-100	0.75
5	2	14	5426 E PINE ST	47471217	37728-100	0.75
6	2	14	5412 E PINE ST	44557541	38919-100	0.75
7	2	14	5408 E PINE ST	47115235	38794-100	0.75
8	2	14	5406 E PINE ST	45586114	37615-100	0.75
9	2	14	5332 E PINE ST	47114279	39361-100	0.75
10	2	14	5326 E PINE ST	47114277	33348-100	0.75
11	2	14	5320 E PINE ST	47115200	32988-100	0.75
12	2	13	5316 E PINE ST	47471220	39008-100	0.75
13	2	13	5312 E PINE ST	47115194	36649-100	0.75
14	2	13	5302 E PINE ST	47114278	37740-100	0.75
15	2	13	5228 E PINE ST	47051620	37634-100	0.75
16	2	13	5222 E PINE ST	47051623	37633-100	0.75
17	2	13	5218 E PINE ST	47051600	34443-100	0.75
18	2	13	5212 E PINE ST	47051583	38093-100	0.75
19	2	13	5208 E PINE ST	45586115	35558-100	0.75
20	2	13	5202 E PINE ST	47051598	39535-100	0.75
21	2	12	5126 E PINE ST	47051599	40366-100	0.75
22	2	12	5122 E PINE ST	44542619	39819-100	0.75
23	2	12	5118 E PINE ST	49565981	37921-100	0.75
24	2	12	5112 E PINE ST	49566145	36599-100	0.75
25	2	12	5108 E PINE ST	-	36707-101	0.75
26	2	12	5107 E PINE ST	47565984	53676-100	0.75
27	2	12	5102 E PINE ST	44198635	32999-100	0.75
28	2	12	5022 E PINE ST	47051581	36585-100	0.75
29	2	12	5018 E PINE ST	47051619	32974-100	0.75
30	2	12	5012 E PINE ST	47051585	32972-100	0.75
31	2	11	5006 E PINE ST	45965735	39847-100	0.75
32	2	11	5002 E PINE ST	47051610	77320-100	0.75
33	2	11	4930 E PINE ST	47051621	32590-100	0.75
34	2	11	4926 E PINE ST	47566144	39219-100	0.75
35	2	11	4918 E PINE ST	46926220	42956-100	0.75
36	2	11	4912 E PINE ST	49306306	39666-100	0.75
37	2	11	4906 E PINE ST	47051609	39018-100	0.75
38	2	11	4902 E PINE ST	47051587	31168-100	0.75
39	2	10	4824 E PINE ST	44547409	91163-100	1.00
39	2	10	4826 E PINE ST	46833196	91164-100	1.00
40	2	10	4825 E PINE ST	47051611	31211-100	0.75
41	1	8	536 N OLIVER AVE	45048346	30783-100	1.00
42	1	8	542 N OLIVER AVE	47050025	30861-100	0.75
43	1	8	546 N OLIVER AVE	44398838	46336-100	0.75
43	1	8	548 N OLIVER AVE	44965375	46335-100	0.75
44	1	8	552 N OLIVER AVE	45699125	84408-100	0.75
44	1	8	554 N OLIVER AVE	47050023	30860-100	0.75
45	1	8	602 N OLIVER AVE	45048345	30784-100	1.00
46	1	8	610 N OLIVER AVE	47050036	31422-100	0.75
47	1	8	611 N OLIVER AVE	47820866	94655-100	0.75
48	1	8	614 N OLIVER AVE	47566111	30862-100	0.75
49	1	8	615 N OLIVER AVE	47820828	37657-100	0.75
50	1	9	617 N OLIVER AVE	47820796	37055-100	0.75
51	1	9	619 N OLIVER AVE	47915519	37056-100	0.75
52	1	8	620 N OLIVER AVE	47050038	31413-100	0.75
53	1	9	626 N OLIVER AVE	45377761	30785-100	1.00
54	1	9	631 N OLIVER AVE	47820865	39354-100	0.75
55	1	9	632 N OLIVER AVE	47050034	30823-100	0.75
56	1	9	637 N OLIVER AVE	43876304	39308-100	0.75
57	1	9	638 N OLIVER AVE	47566110	30863-100	0.75
58	1	10	644 N OLIVER AVE	47050052	30786-100	0.75
59	1	9	647 N OLIVER AVE	44595846	38824-100	0.75
60	1	9	653 N OLIVER AVE	47820798	39831-100	0.75
61	7	25	602 N HARDING AVE	47051688	32250-100	0.75
62	3	16	610 N HARDING AVE	44398672	37707-100	-

63	3	16	611 N HARDING AVE	47050680	48591-100	-
64	3	16	614 N HARDING AVE	47050013	38927-100	-
65	3	16	615 N HARDING AVE	45048180	31523-100	1.00
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68	3	16	623 N HARDING AVE	47050703	31242-100	-
69	3	16	624 N HARDING AVE	47050695	34042-100	-
70	3	16	628 N HARDING AVE	47050697	42732-100	-
71	3	16	629 N HARDING AVE	44398861	31525-100	-
72	3	16	632 N HARDING AVE	44398873	41736-100	-
73	3	16	633 N HARDING AVE	47050704	31202-100	0.75
74	3	17	639 N HARDING AVE	47050014	31186-100	0.75
75	3	17	640 N HARDING AVE	47050705	31854-100	-
76	3	17	643 N HARDING AVE	44557672	31187-100	-
77	3	17	644 N HARDING AVE	47050696	31842-100	0.75
78	3	17	648 N HARDING AVE	47050698	31855-100	0.75
79	3	17	649 N HARDING AVE	48526642	31140-100	0.75
80	3	17	653 N HARDING AVE	47050699	31159-100	0.75
81	3	17	654 N HARDING AVE	44399317	32041-100	1.00
82	7	26	524 N OLD MANOR RD	44398623	45228-100	0.75
83	4	18	601 N OLD MANOR RD	47050709	42663-100	0.75
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87	4	18	616 N OLD MANOR RD	47472296	36977-100	0.75
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93	4	19	633 N OLD MANOR RD	47050694	47856-100	0.75
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95	4	19	640 N OLD MANOR RD	-	37513-100	0.75
96	4	19	641 N OLD MANOR RD	47050677	43897-100	0.75
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98	4	19	645 N OLD MANOR RD	47566181	36882-100	0.75
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101	4	19	653 N OLD MANOR RD	45965655	36865-100	0.75
102	1	19	654 N OLD MANOR RD	47115123	36426-100	0.75
103	7	20	602 N PARKWOOD LN	47114323	36575-100	0.75
104	5	20	603 N PARKWOOD LN	44398650	36301-100	0.75
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109	5	20	618 N PARKWOOD LN	47114326	39251-100	0.75
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111	5	20	624 N PARKWOOD LN	47114327	37955-100	0.75
112	5	20	625 N PARKWOOD LN	47113614	39154-100	0.75

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114	5	20	631 N PARKWOOD LN	47113613	45737-100	0.75
115	5	20	634 N PARKWOOD LN	47114302	33602-100	0.75
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117	5	21	640 N PARKWOOD LN	47114878	33616-100	0.75
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123	5	21	654 N PARKWOOD LN	47114304	33623-100	0.75
124	6	22	602 N RIDGEWOOD DR	47471221	33396-100	0.75
125	6	22	603 N RIDGEWOOD DR	47114291	34112-100	0.75
126	6	22	608 N RIDGEWOOD DR	47115130	33378-100	0.75
127	6	22	609 N RIDGEWOOD DR	44280603	34110-100	0.75
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132	6	22	622 N RIDGEWOOD DR	44543149	33355-100	0.75
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134	6	22	629 N RIDGEWOOD DR	44829868	33420-100	0.75
135	6	22	630 N RIDGEWOOD DR	47115135	43519-100	0.75
136	6	22	633 N RIDGEWOOD DR	35807425	37541-100	0.75
137	6	22	636 N RIDGEWOOD DR	44476365	52231-100	0.75
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139	6	23	644 N RIDGEWOOD DR	47113591	33419-100	0.75
140	6	23	647 N RIDGEWOOD DR	47114292	33340-100	0.75
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144	6	23	660 N RIDGEWOOD DR	47113617	33341-100	0.75
145	7	28	5425 E ELM ST	47115138	43234-100	0.75
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148	7	27	5407 E ELM ST	47115122	36787-100	0.75
149	7	27	5401 E ELM ST	44398639	33478-100	0.75
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154	7	27	5307 E ELM ST	47115136	36598-100	0.75
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156	7	26	5221 E ELM ST	47051589	46632-100	0.75
157	7	26	5213 E ELM ST	47051596	42129-100	0.75
158	7	26	5209 E ELM ST	47566082	38317-100	0.75
159	7	26	5204 E ELM ST	44632642	91239-100	1.00
159	7	26	5202 E ELM ST	47051594	91238-100	1.00
160	7	26	5201 E ELM ST	47051576	33514-100	0.75
161	7	26	5129 E ELM ST</			

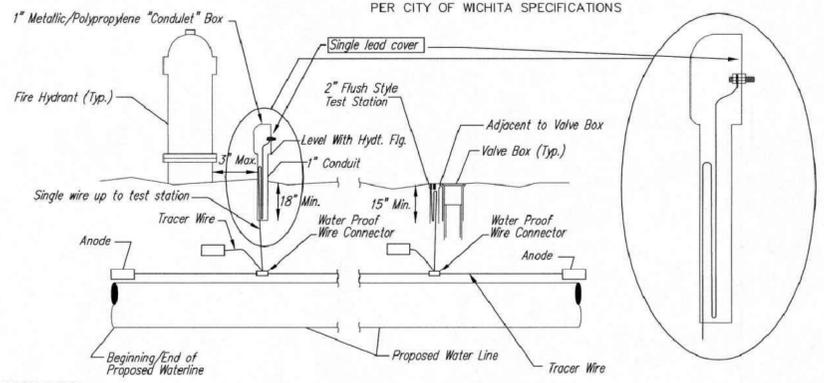


* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY
 PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE
 Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

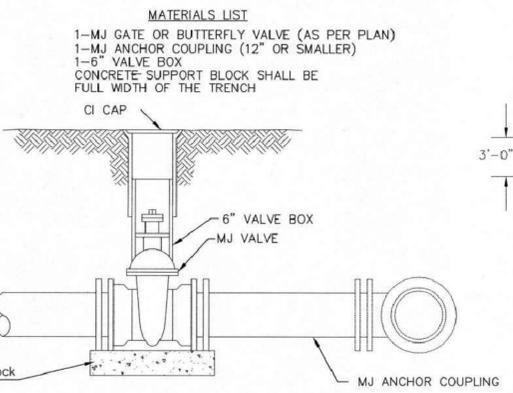
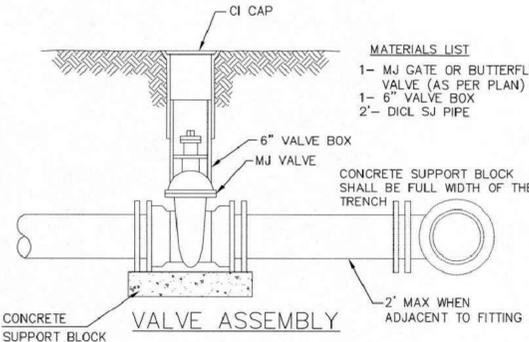
WIRE
 The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS
 The test station for fire hydrant application shall be a 1" "conduit" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

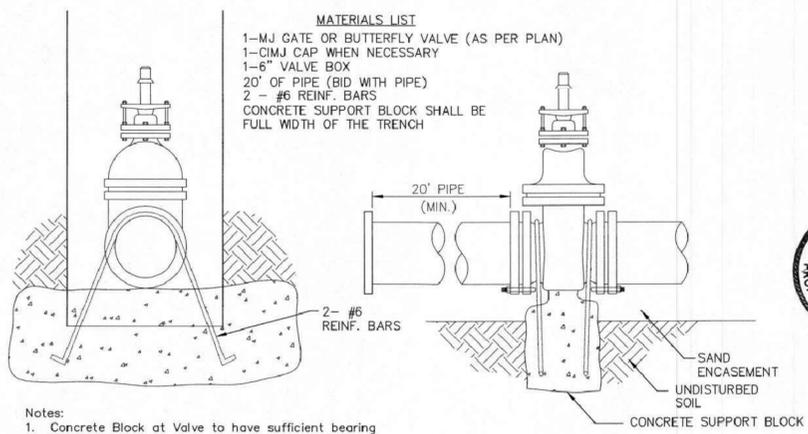
ANODES
 The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL
 COST IS SUBSIDIARY TO PIPE INSTALLATION

STATION	FIRE HYDRANTS REQUIRED		FIRE HYDRANT BURY REQUIRED	VALVE STEM EXT. REQUIRED (F+)
	BURY LINE ELEVATION	TOP OF PIPE ELEVATION		
WL NO 1, STA 2+38.87, 21.89 RT	1369.0	1364.78	4.5	
WL NO 2, STA 0+46.82, 22.25 RT	1369.0	1365.33	4.0	
WL NO 2, STA 8+31.26, -15.76 LT	1363.0	1357.24	6.0	
WL NO 2, STA 11+26.55, -23.41 LT	1369.4	1365.29	4.5	
WL NO 2, STA 17+38.94, -22.71 LT	1387.7	1382.89	5.0	
WL NO 2, STA 24+49.85, -27.35 LT	1386.6	1382.29	4.5	
WL NO 5, 6+45.41, 18.15 RT	1391.0	1385.69	5.5	
WL NO 7, 3+38.04, -19.04 LT	1362.2	1357.57	5.0	
WL NO 7, 7+28.60, -23.40 LT	1368.3	1363.72	5.0	
WL NO 7, 13+27.57, -23.00 LT	1384.2	1380.42	4.0	
WL NO 7, 17+18.01, -23.64 LT	1385.1	1381.40	4.0	
WL NO 7, 19+98.74, 21.81 RT	1381.1	1376.35	5.0	

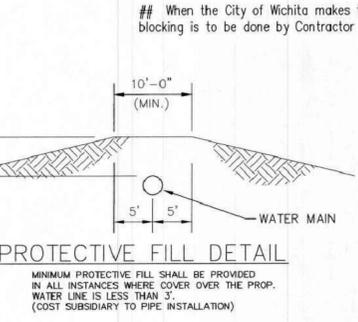
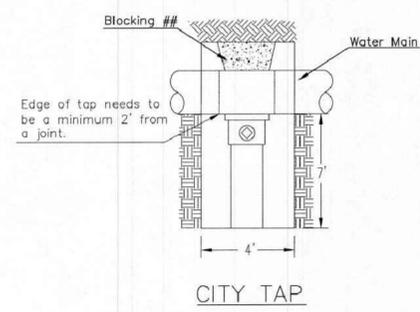


ANCHORED VALVE ASSEMBLY, SPECIAL



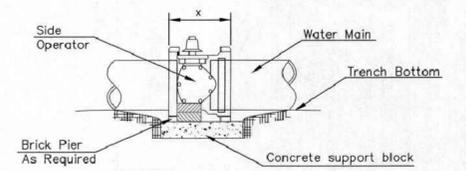
Notes:
 1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
 3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

VALVE	THRUST AT 150 #/in ²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.



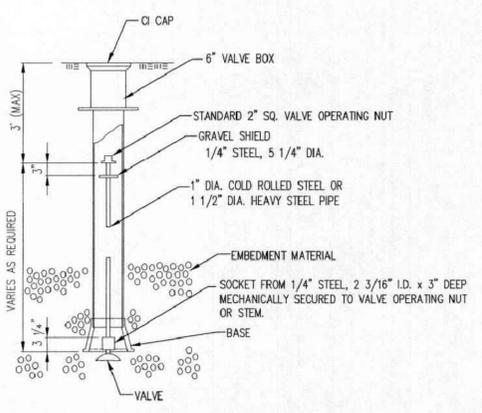
PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3' (COST SUBSIDIARY TO PIPE INSTALLATION)



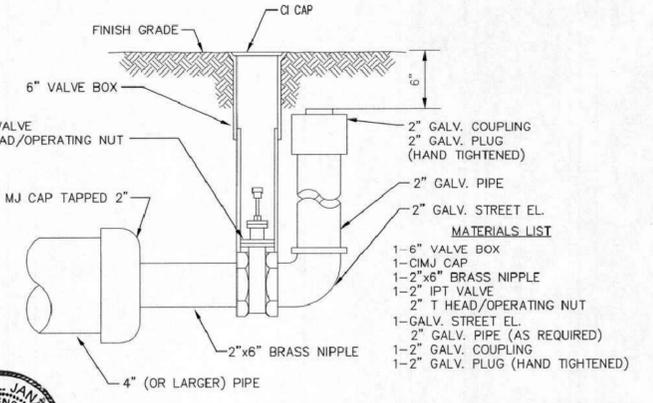
NOTES
 1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
 2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
 3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'



2" BLOWOFF ASSEMBLY



REVISED: OCTOBER 2016

STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		
SHEET		

REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

STANDARD WATER ASSEMBLY DETAIL

EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

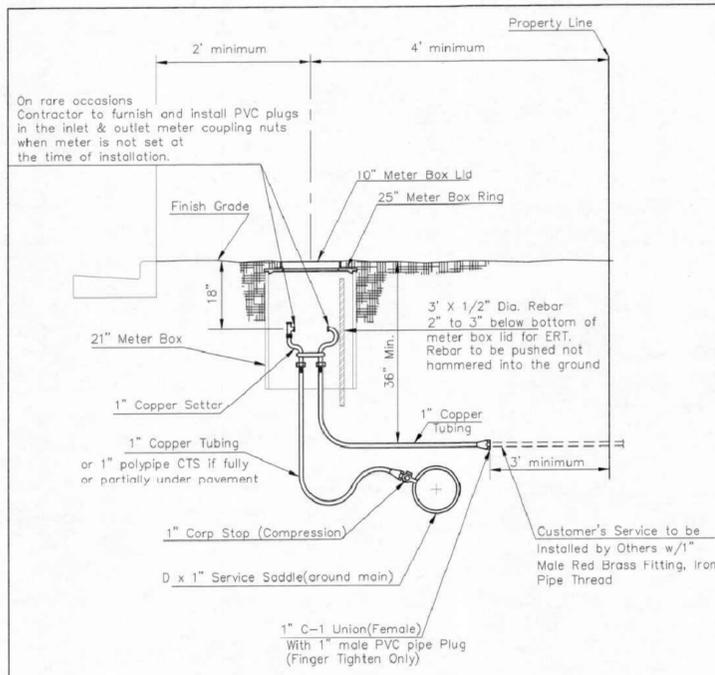
PROJECT:

DESIGNED BY: EJB
 DRAWN BY: HZ/JCG
 CHECKED BY: EJB
 DATE: Sep-25



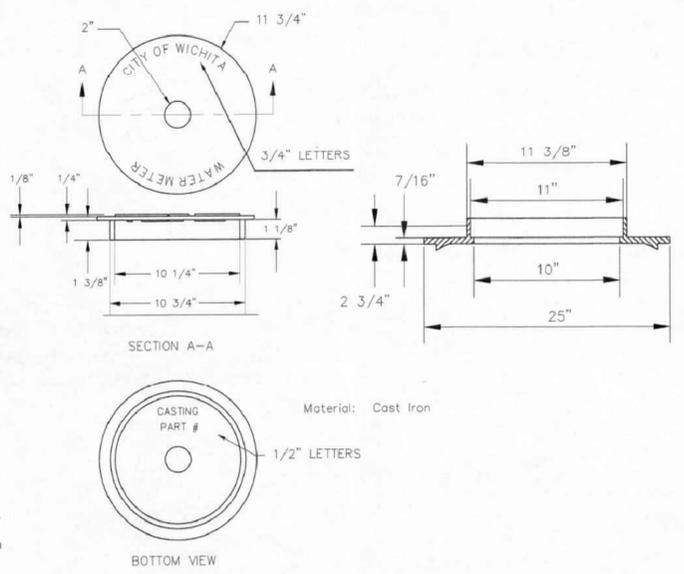
PROJECT NO.
 8275000434

SHEET NO.
05
 OF 36



TYPICAL 1" METER SETTING

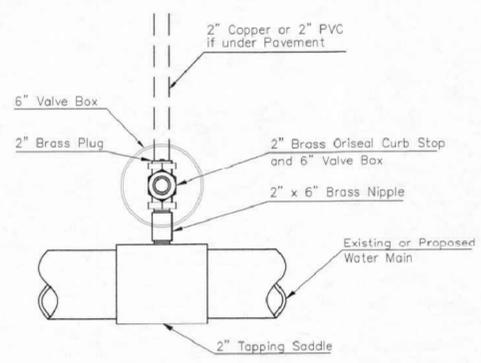
Minimum length of pigtail on consumer side is 36" of copper tubing from meter set.
 Bore hole under paving shall be a maximum of 2" in diameter and a minimum of 36" below top of pavement.
 Service Saddles are required on all mains.
 Meter boxes will be located on each lot to be served, as indicated in the SPECIAL PROVISIONS



NOT TRAFFIC RATED RING & LID FOR 1" METER BOX

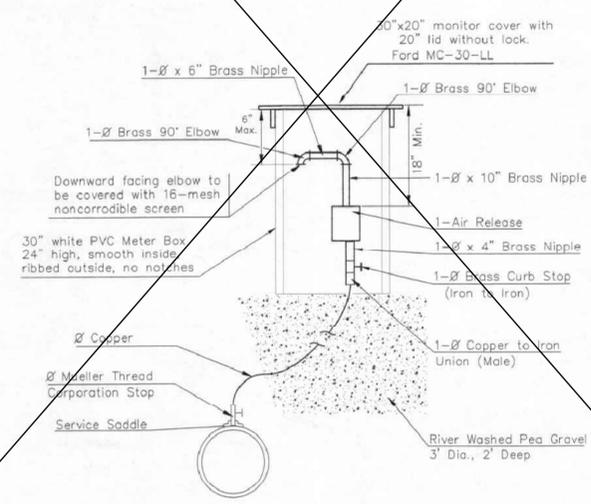
- 1 - Ø Mueller Thread Corporation Stop
- Ø Type "K" Copper Tubing
- 1 - Ø Copper to Iron Union (Male)
- 1 - Ø Brass Curb Stop (Iron to Iron)
- 2 - Ø4" Brass Nipple
- Air Release
- 2 - Ø Brass Elbows (90°)
- 1 - 1"x6" Brass Nipple
- 1 - 30" Monitor Cover
- 1 - 20" Meter Lid

NOTE:
 THE 1 1/2" AIR RELEASE ASSEMBLY WILL TYPICALLY BE USED ON WATER MAINS 24" AND SMALLER, AS SPECIFICALLY DESIGNATED IN THE PLANS. COMBINATION AIR RELEASE ASSEMBLIES WILL BE SPECIFICALLY DESIGNED FOR PROJECTS WITH LARGER MAINS, AND WILL BE INCLUDED IN THE PLANS.

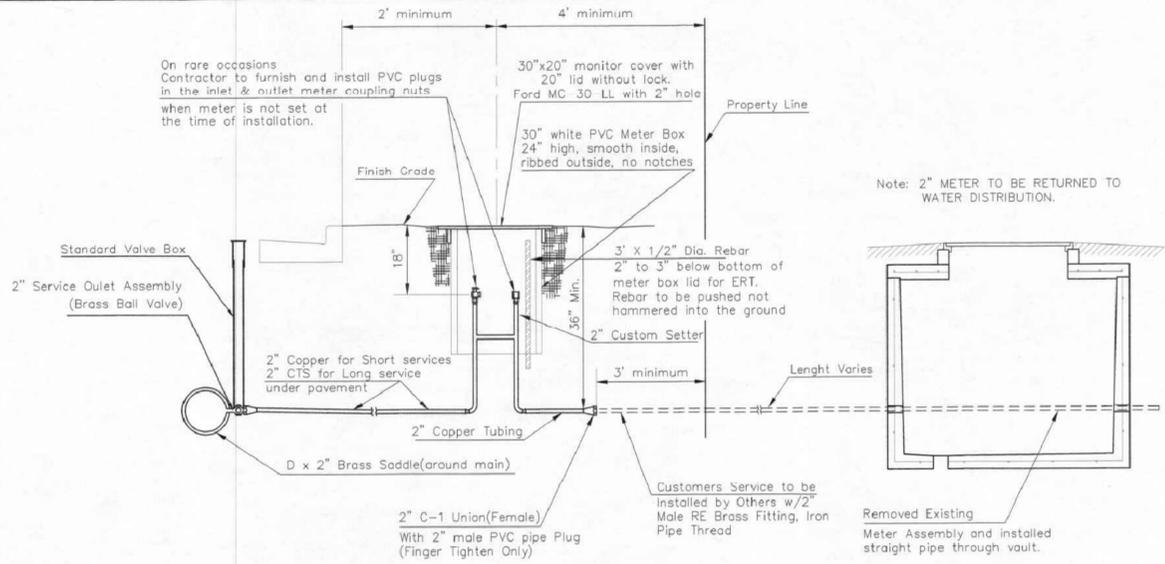


Note: Where the 2" Service Outlet Assembly is to be used to connect a 2" main to another main, the 2" valve shall be a 2" IPT Gate Valve. 2" ball or globe valves shall not be approved for this use.

2" SERVICE OUTLET ASSEMBLY TOP VIEW



MATERIALS FOR 1" or 2" AIR RELEASE ASSEMBLY Ø = 1" or 2"

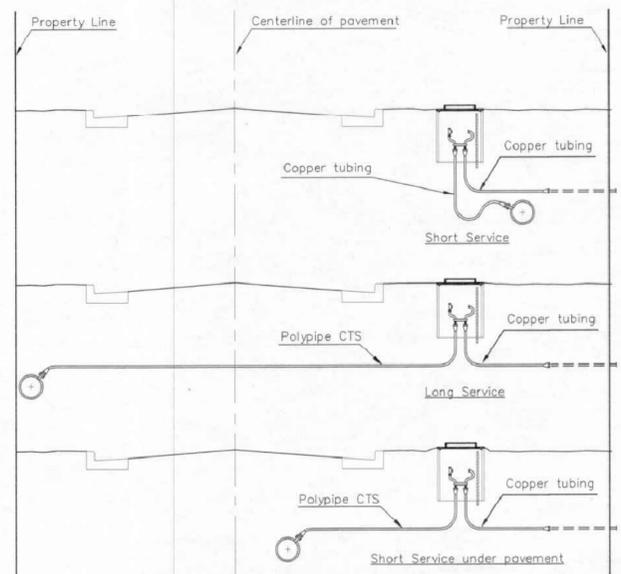


TYPICAL 2" METER SETTING

Note: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.

TYPICAL 2" METER SETTING INVOLVING EXISTING 2" METER VAULT

Note: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.

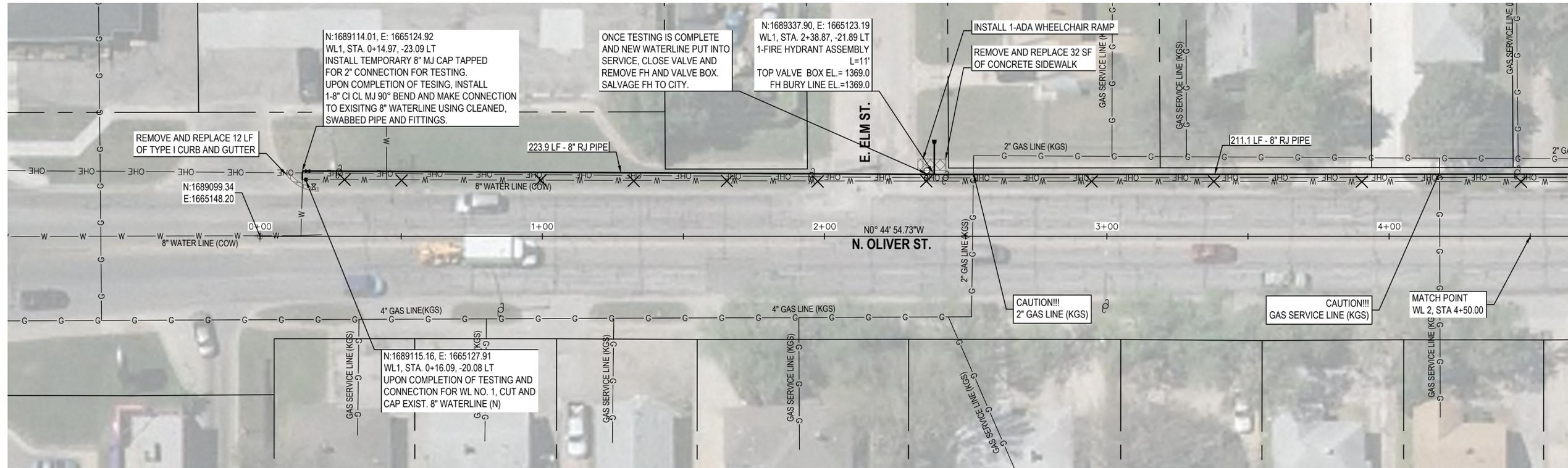


SERVICE TYPES

REVISED: NOVEMBER 2019	TM	3"x1/2" REBAR IN 1" & 2" METER SETTINGS FOR ERT.
 STANDARD WATER SERVICE DETAIL CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET
		- of -

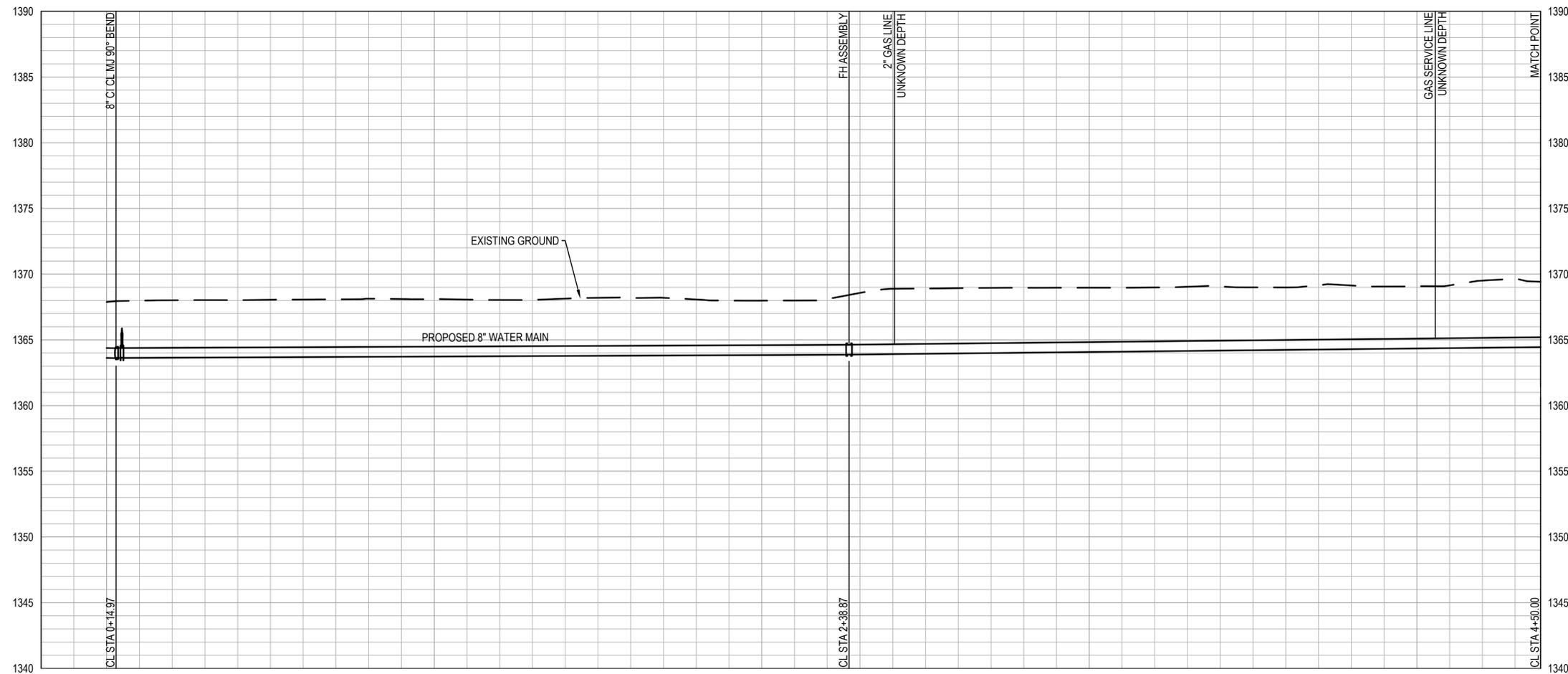
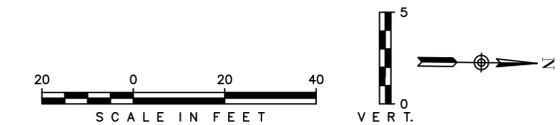


WSP USA 245 N. WACO AVENUE, SUITE 110 WICHITA, KANSAS 67202 PHONE: 316-448-2711 FAX: 316-448-2711	 STANDARD WATER SERVICE DETAIL EAST HIGHLANDS WMR PHASE 2 N OLIVER AND E MURDOCK, WICHITA, KS LOCATION
DESIGNED BY: EJB	PROJECT NO. 8275000434
DRAWN BY: HZ	SHEET NO. 06
CHECKED BY: EJB	OF 36
DATE: Sep-25	



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	10
SHORT SERVICES	4



REVISIONS:

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

N. OLIVER ST. 0+00.00 - 4+50.00
EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS
LOCATION

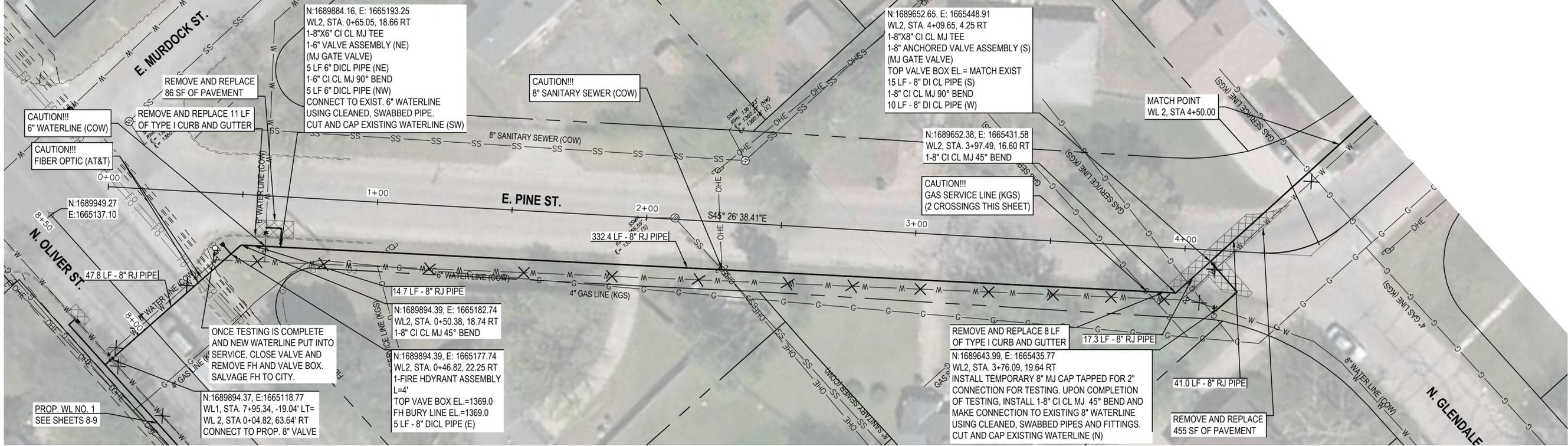
DESIGNED BY: EJB
DRAWN BY: HZ/ACG
CHECKED BY: EJB
DATE: Sep-25

CITY OF WICHITA

ANGELA C. GUTIERREZ
LICENSED PROFESSIONAL ENGINEER
30826
9-2-25
KANSAS

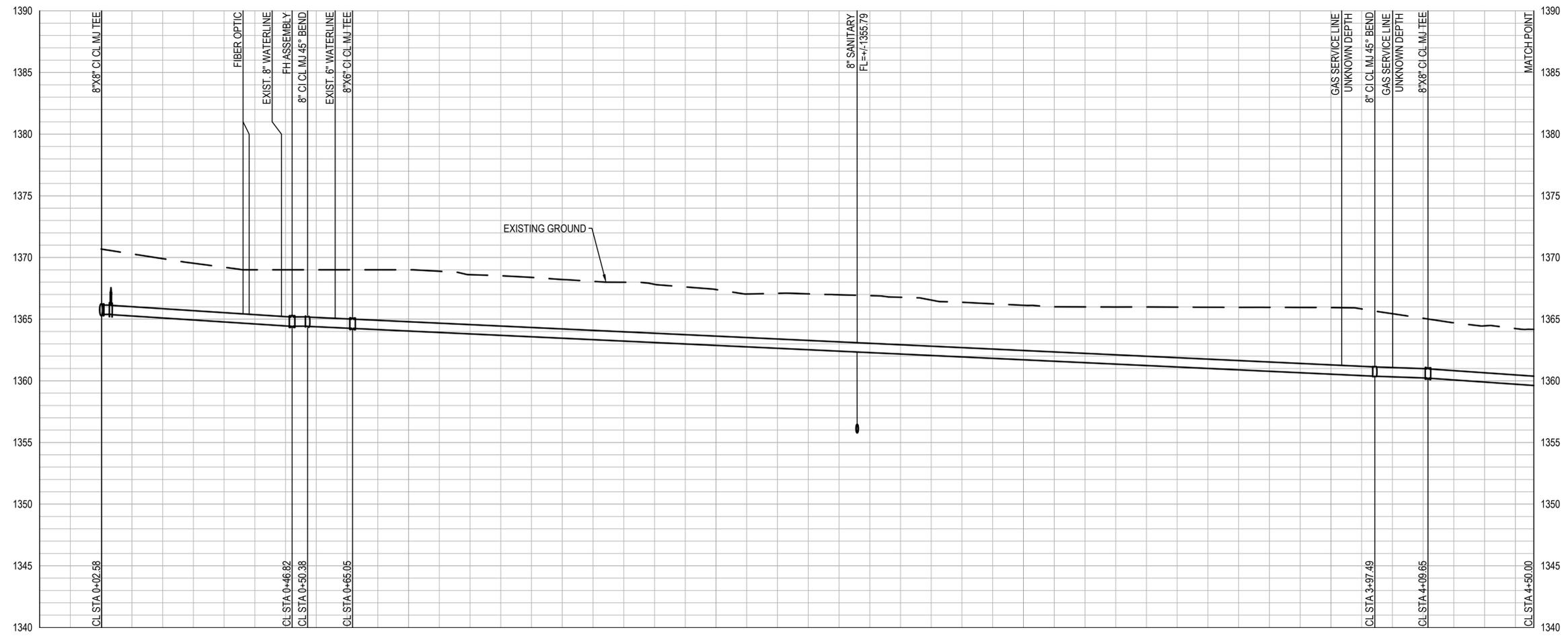
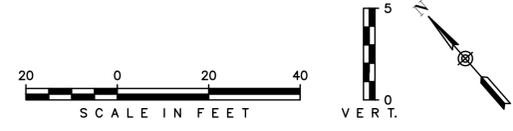
PROJECT NO.
8275000434

SHEET NO.
08
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	2
SHORT SERVICES	2



REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

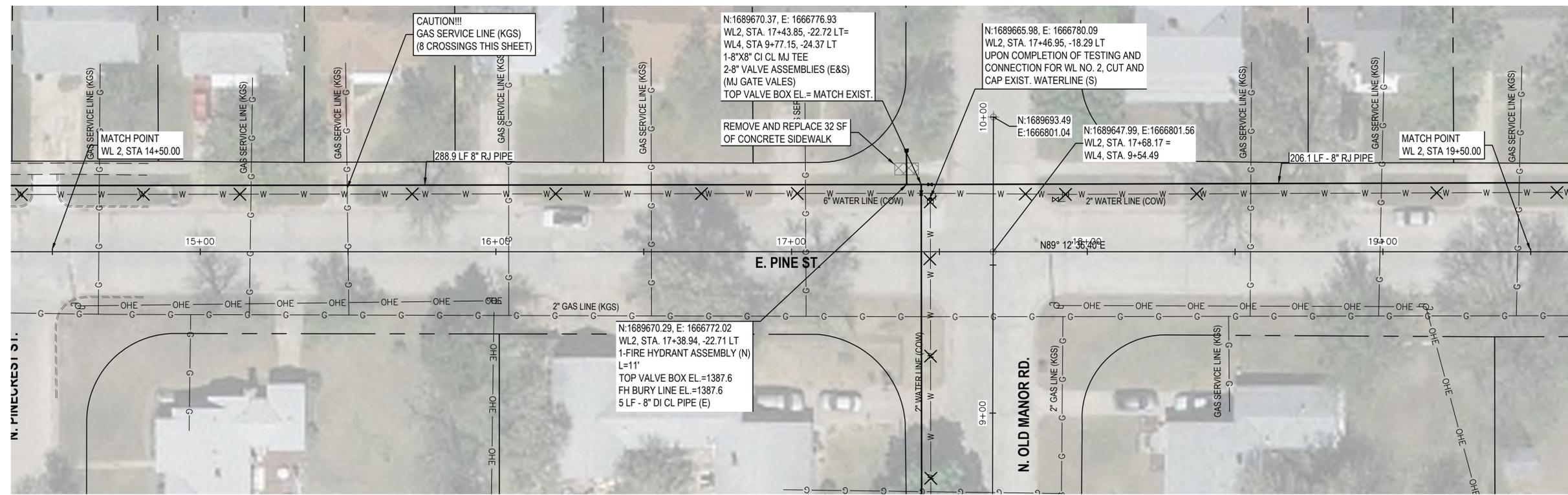
E. PINE ST. 0+00.00 - 4+50.00
 EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



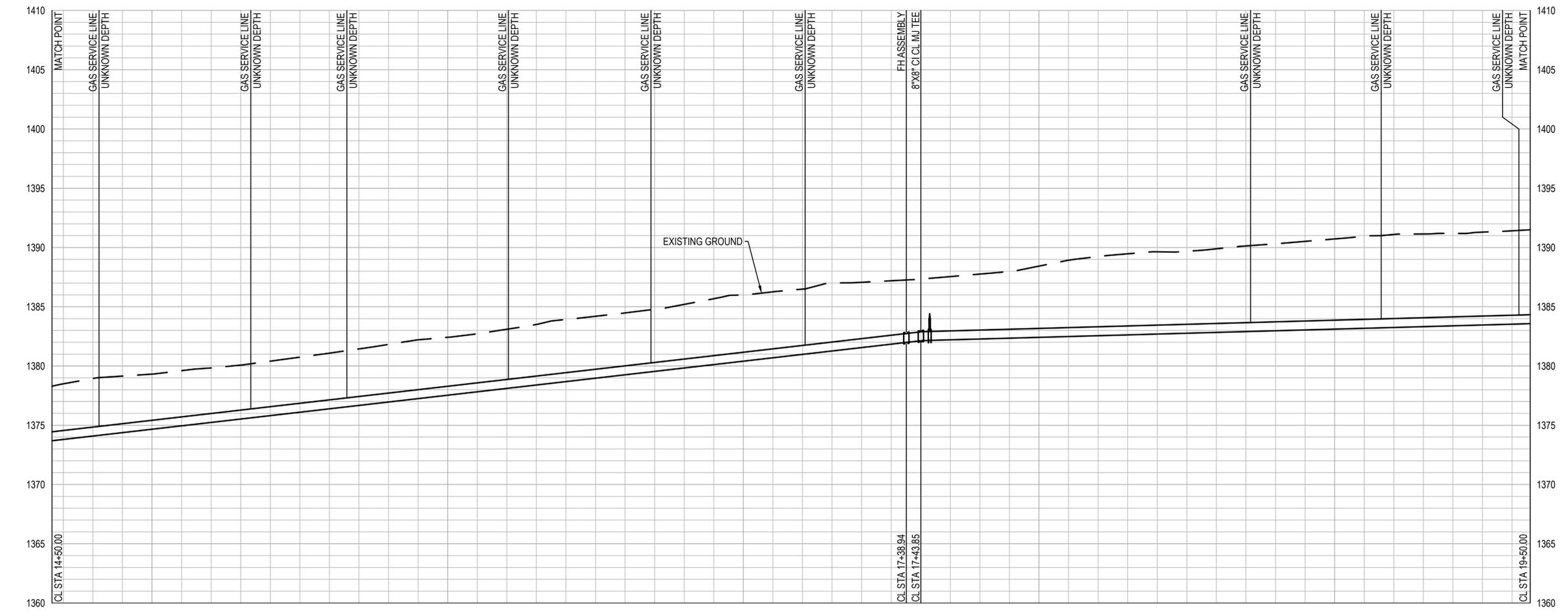
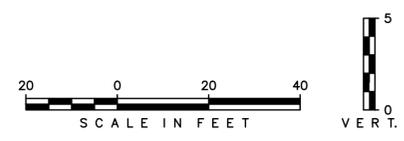
PROJECT NO.
8275000434

SHEET NO.
10
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	-
SHORT SERVICES	9



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 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711



E. PINE ST. 14+50.00 - 19+50.00

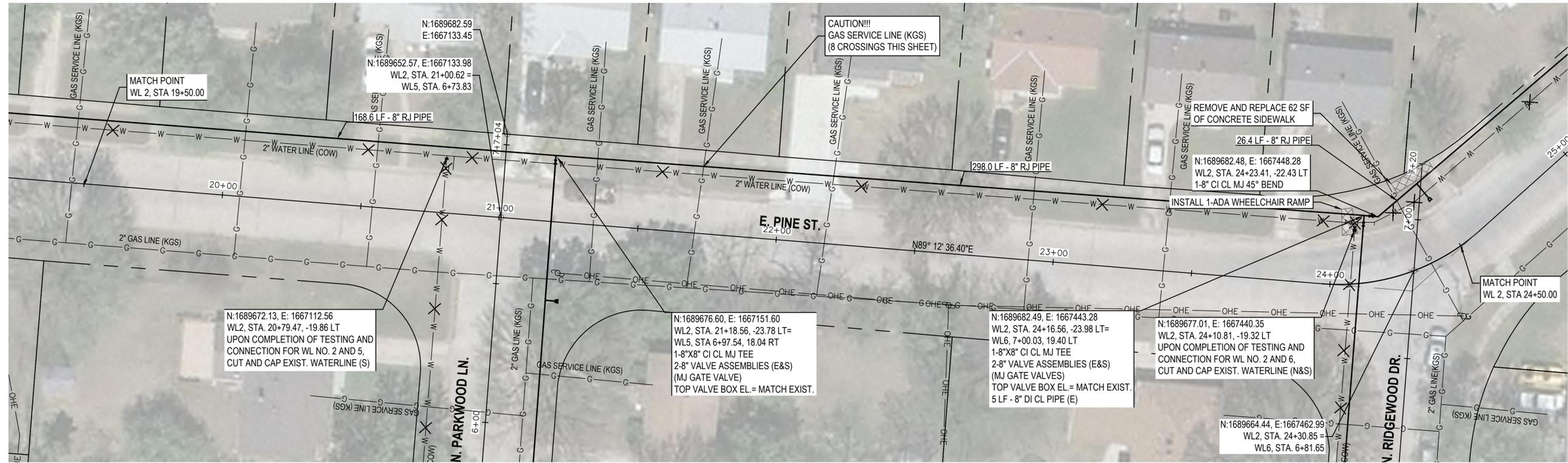
PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



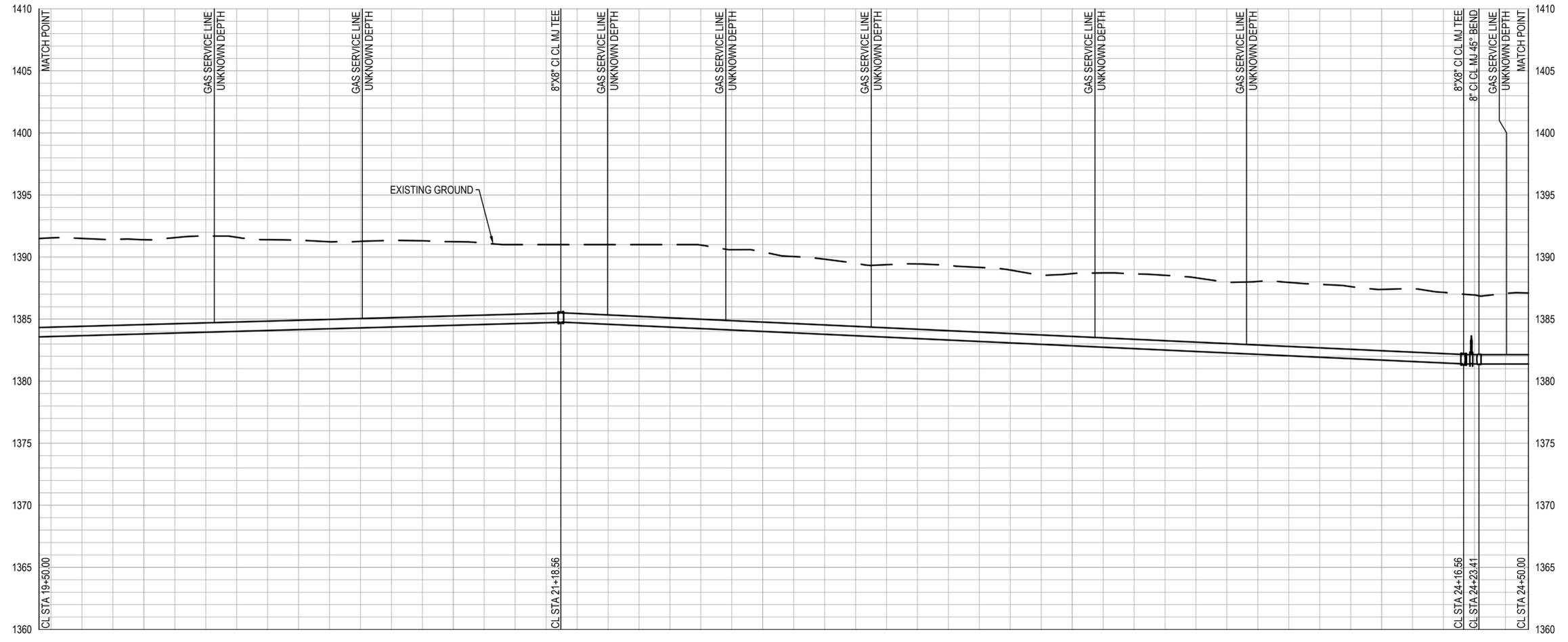
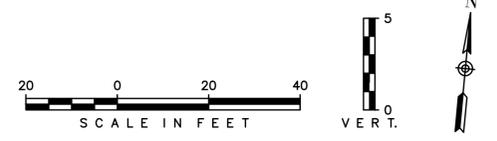
PROJECT NO.
8275000434

SHEET NO.
13
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	-
SHORT SERVICES	8



REVISIONS:

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

E. PINE ST. 19+50.00 - 24+50.00

EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS

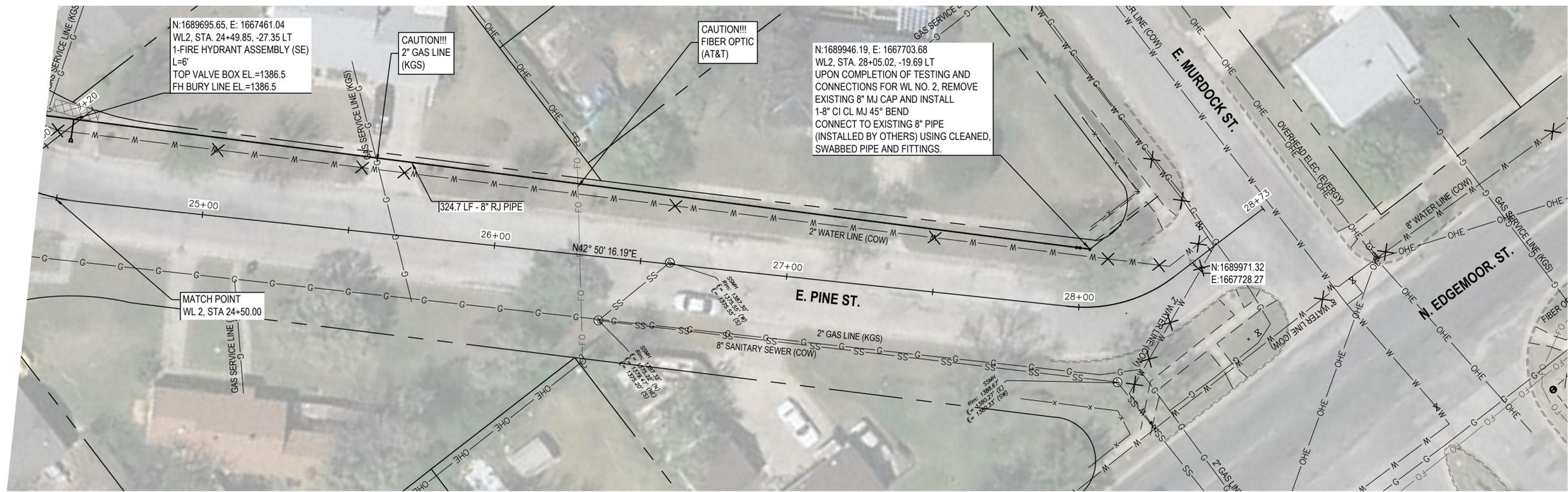
LOCATION

DESIGNED BY: EJB
DRAWN BY: HZ/ACG
CHECKED BY: EJB
DATE: Sep-25



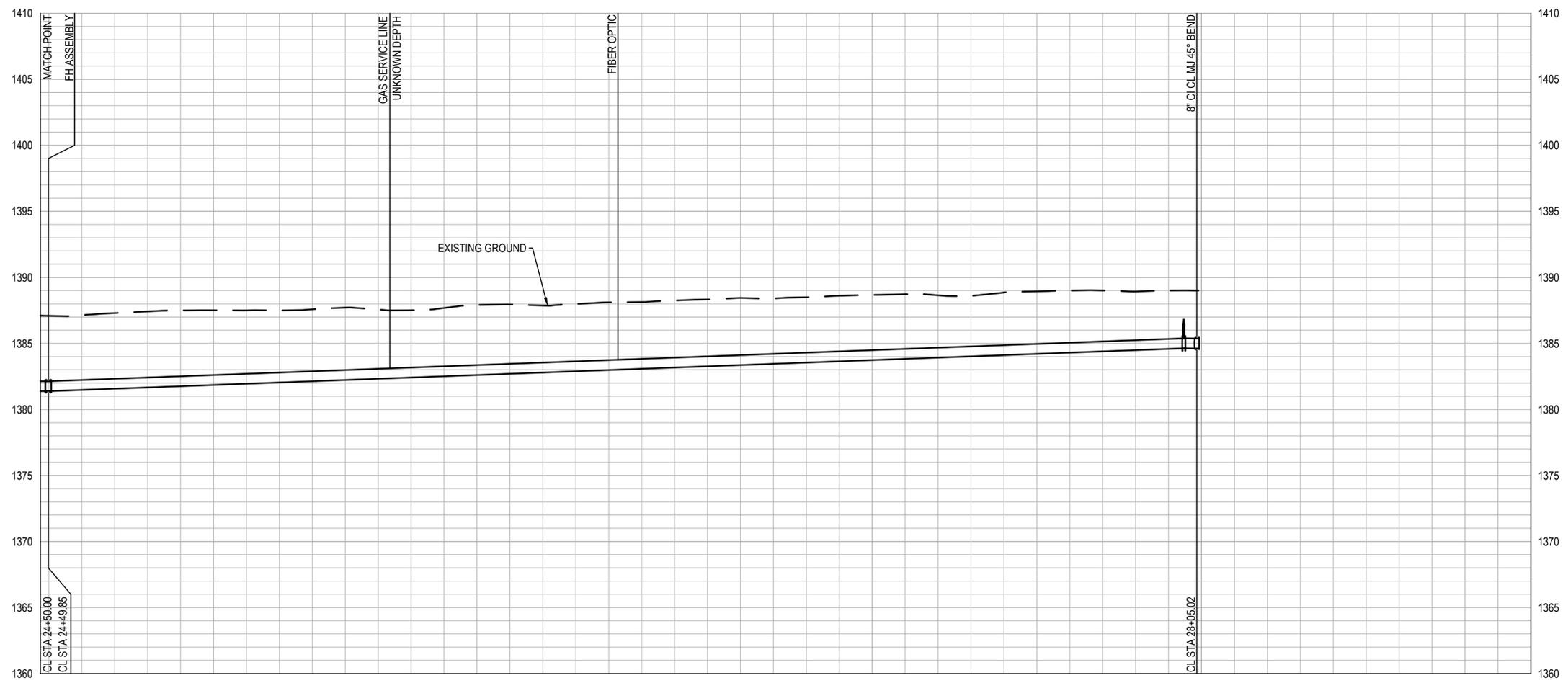
PROJECT NO.
8275000434

SHEET NO.
14
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	1
SHORT SERVICES	2



REVISIONS:



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WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

E. PINE ST. 24+50.00 - 28+05.02

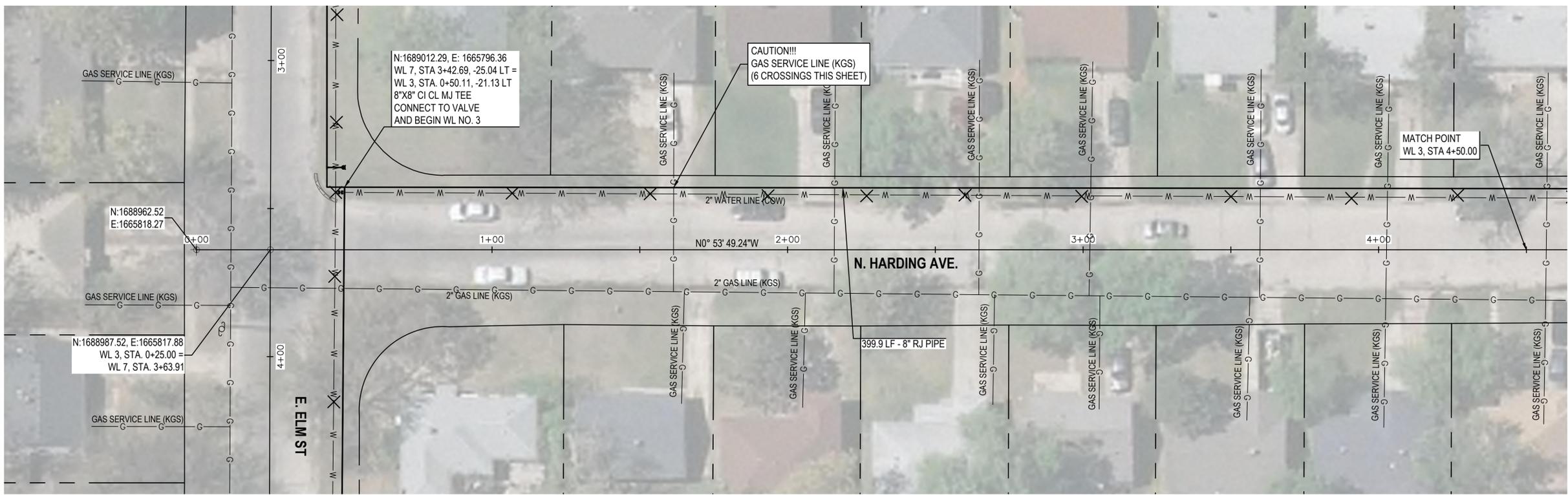
PROJECT:
EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS
LOCATION

DESIGNED BY: EJB
DRAWN BY: HZ/ACG
CHECKED BY: EJB
DATE: Sep-25



PROJECT NO.
8275000434

SHEET NO.
15
OF 36



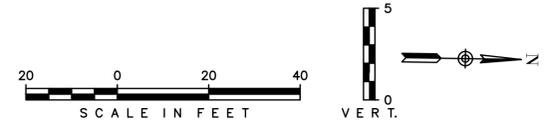
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 WL 7, STA 3+42.69, -25.04 LT =
 WL 3, STA. 0+50.11, -21.13 LT
 8\"/>

CAUTION!!!
 GAS SERVICE LINE (KGS)
 (6 CROSSINGS THIS SHEET)

MATCH POINT
 WL 3, STA 4+50.00

X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	6
SHORT SERVICES	6



REVISIONS:

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 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

N. HARDING AVE. 0+00.00 - 4+50.00

PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

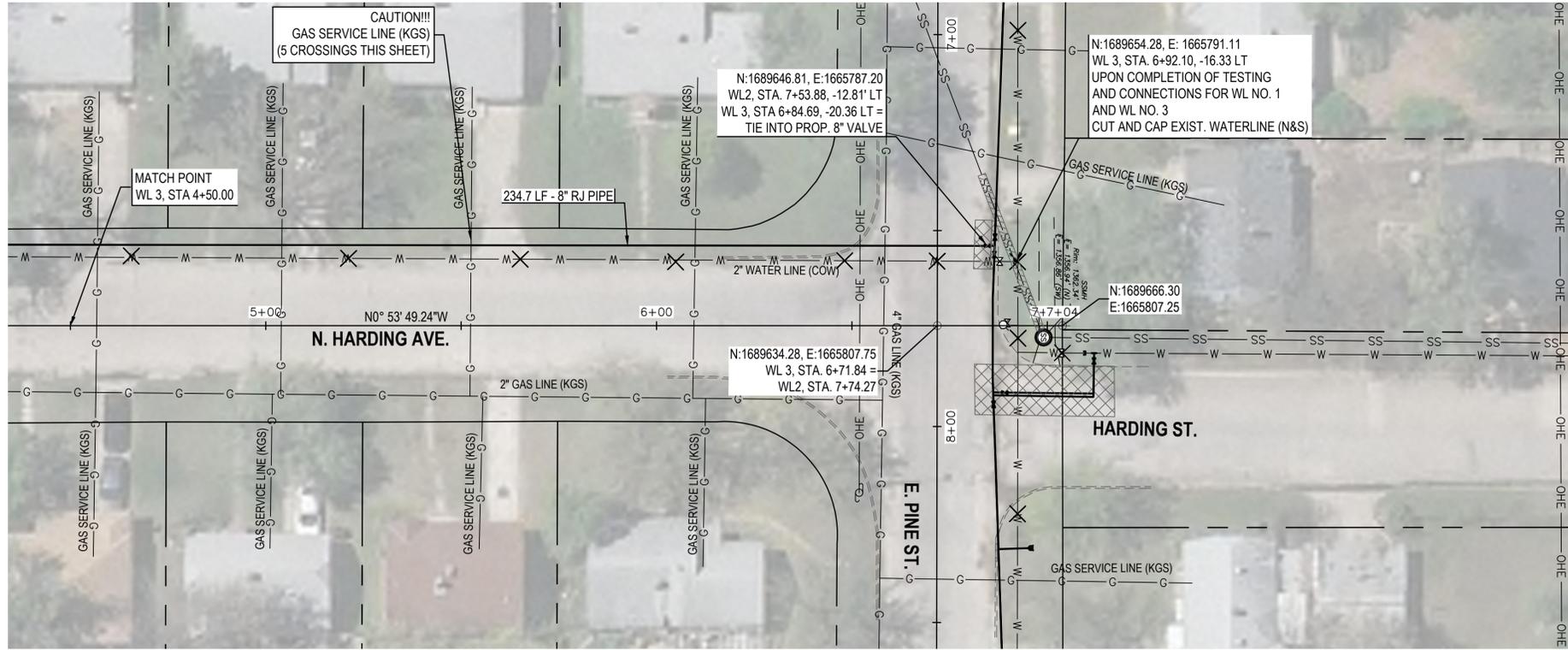
DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25

CITY OF WICHITA

ANGELA C. GUTIERREZ
 LICENSED PROFESSIONAL ENGINEER
 30826
 9-2-25
 KANSAS

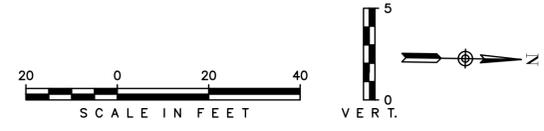
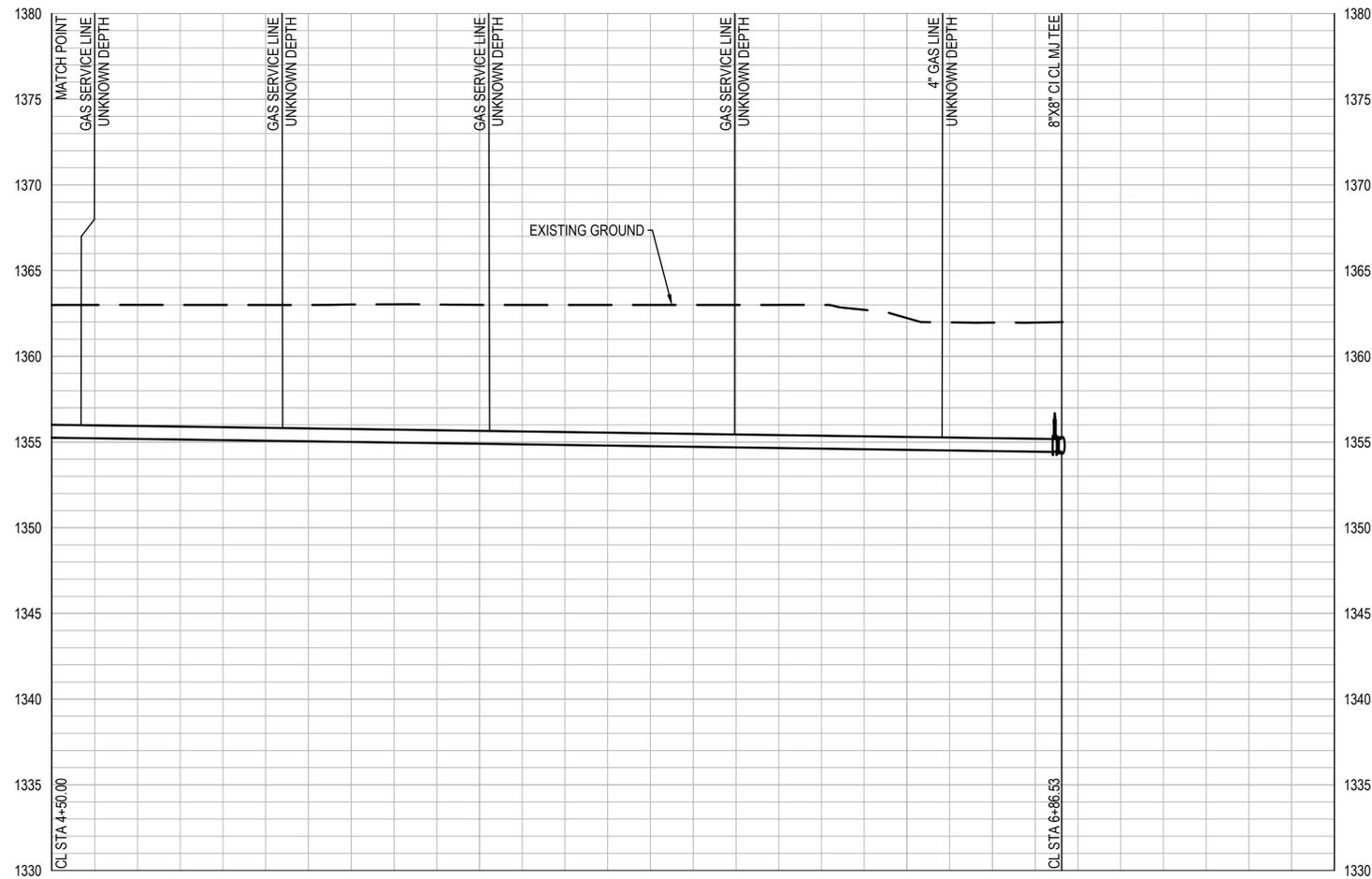
PROJECT NO. 8275000434

SHEET NO. 16 OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	4
SHORT SERVICES	4



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 PHONE: 316-448-2711
 FAX: 316-448-2711

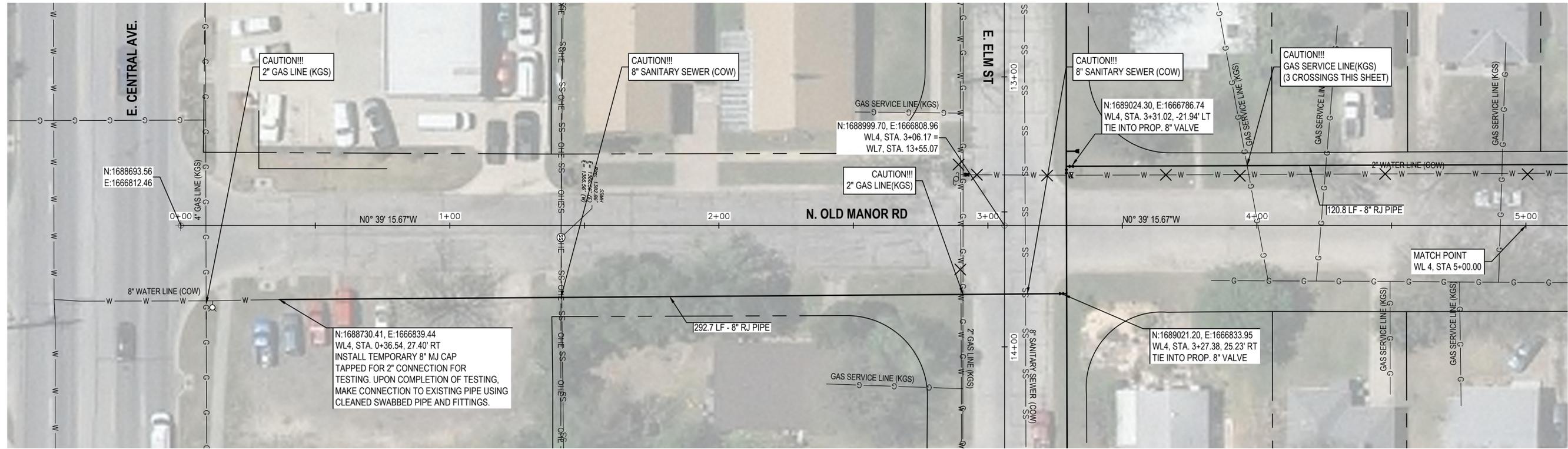
N. HARDING AVE. 4+50.00 - 7+00.00
 PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



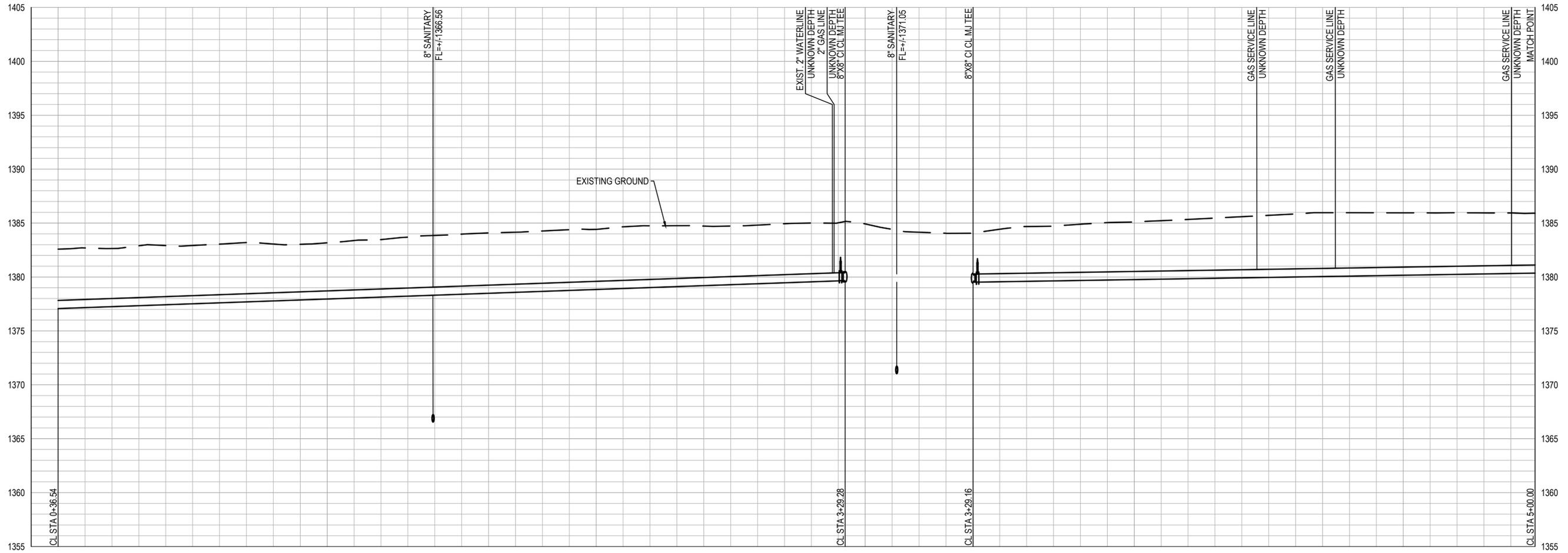
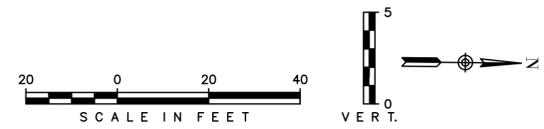
PROJECT NO.
8275000434

SHEET NO.
17
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	2
SHORT SERVICES	3



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 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

N. OLD MANOR RD. 0+00.00 - 5+00.00

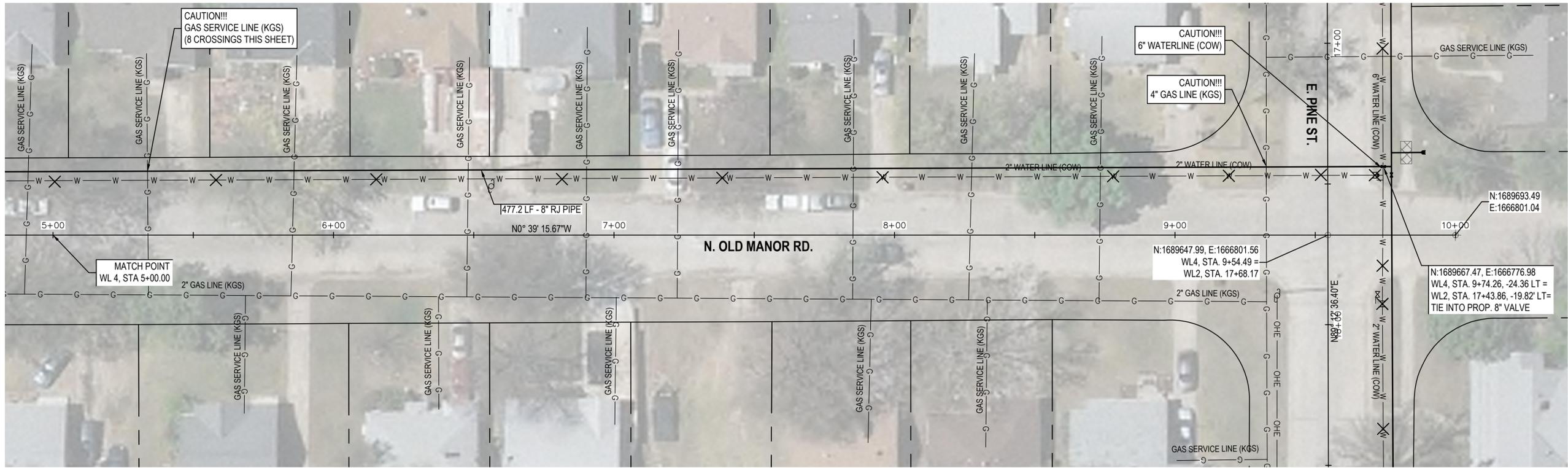
PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



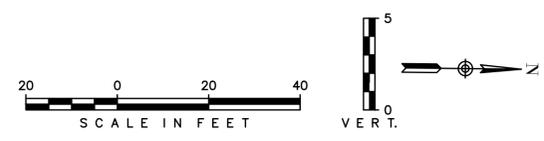
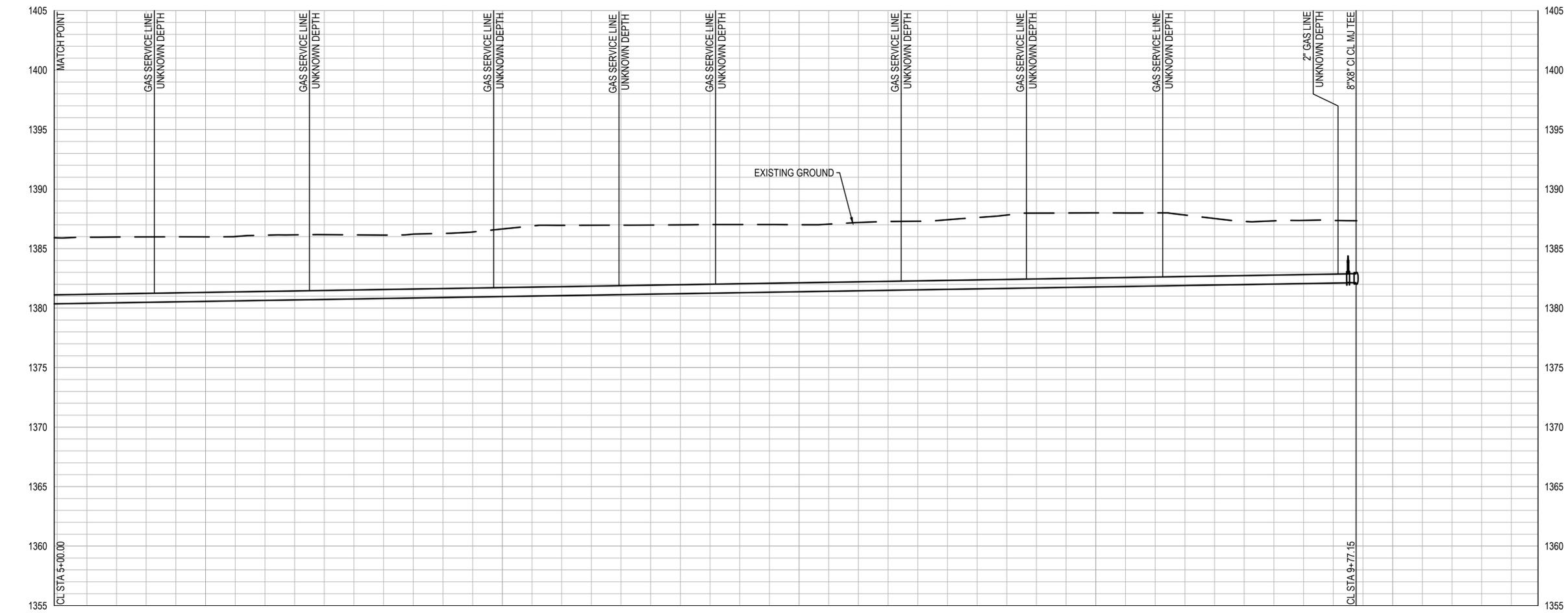
PROJECT NO.
8275000434

SHEET NO.
18
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	6
SHORT SERVICES	9



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 WICHITA, KANSAS 67202
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 FAX: 316-448-2711

N. OLD MANOR RD. 5+00.00 - 10+00.00
 PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



PROJECT NO.
8275000434

SHEET NO.
19
OF 36



CAUTION!!!
2" GAS LINE (KGS)
(7 CROSSINGS THIS SHEET)

MATCH POINT
WL 5, STA 4+50.00

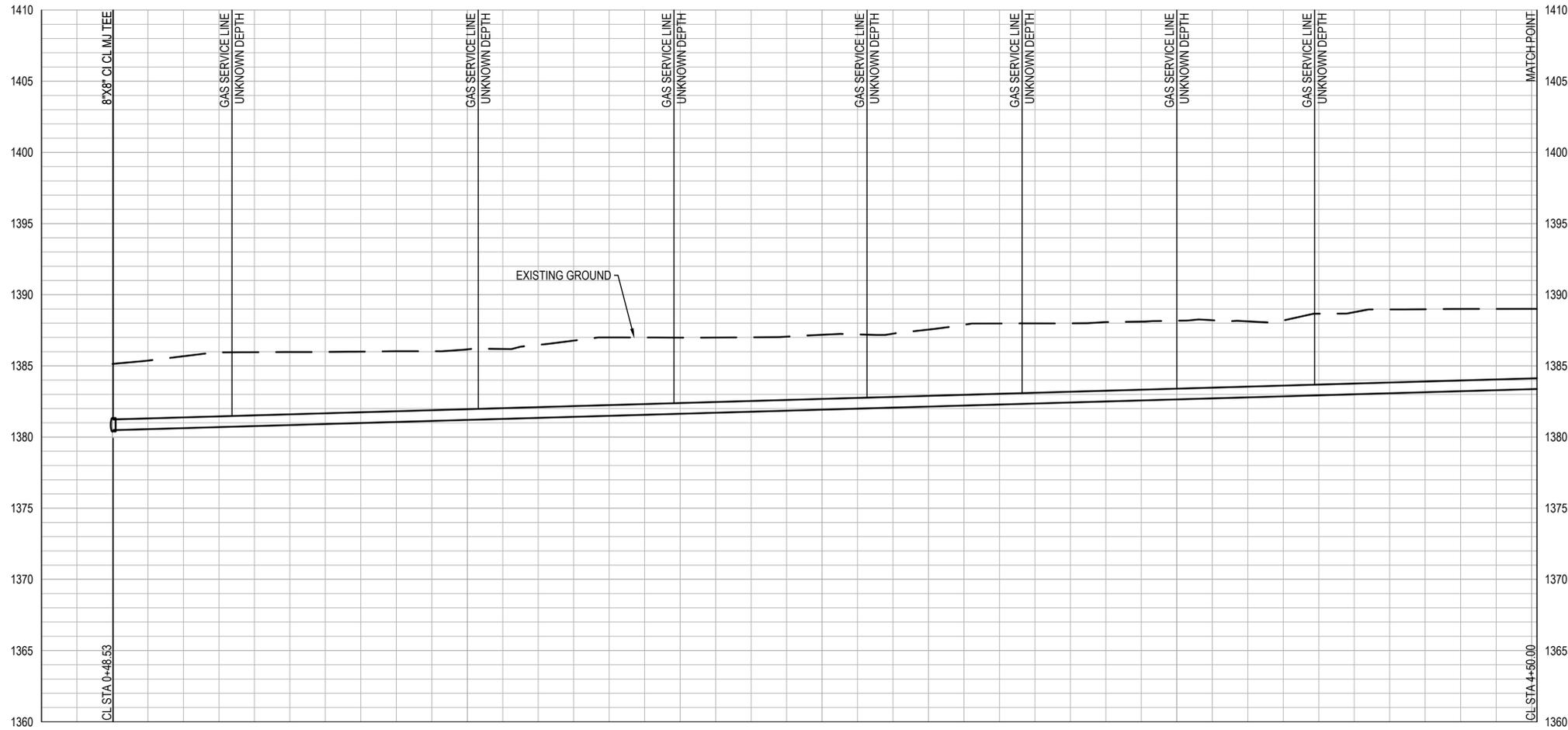
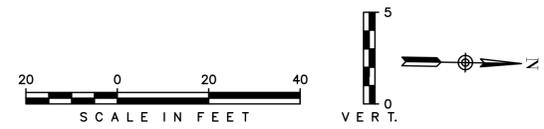
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E:1667145.96

GAS SERVICE LINE (KGS)
N:1689003.84, E:1667145.52
WL5, STA. 0+25.00 =
WL7, STA. 16+91.65

N:1689027.71, E: 1667164.55
WL7, STA. 17+10.97, -23.63 LT=
WL 5, STA 0+48.53, 19.45 LT
8"X8" CI CL MJ TEE
CONNECT TO 8" VALVE AND
BEGIN WL NO. 5

X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	7
SHORT SERVICES	7



NO.	REVISIONS

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

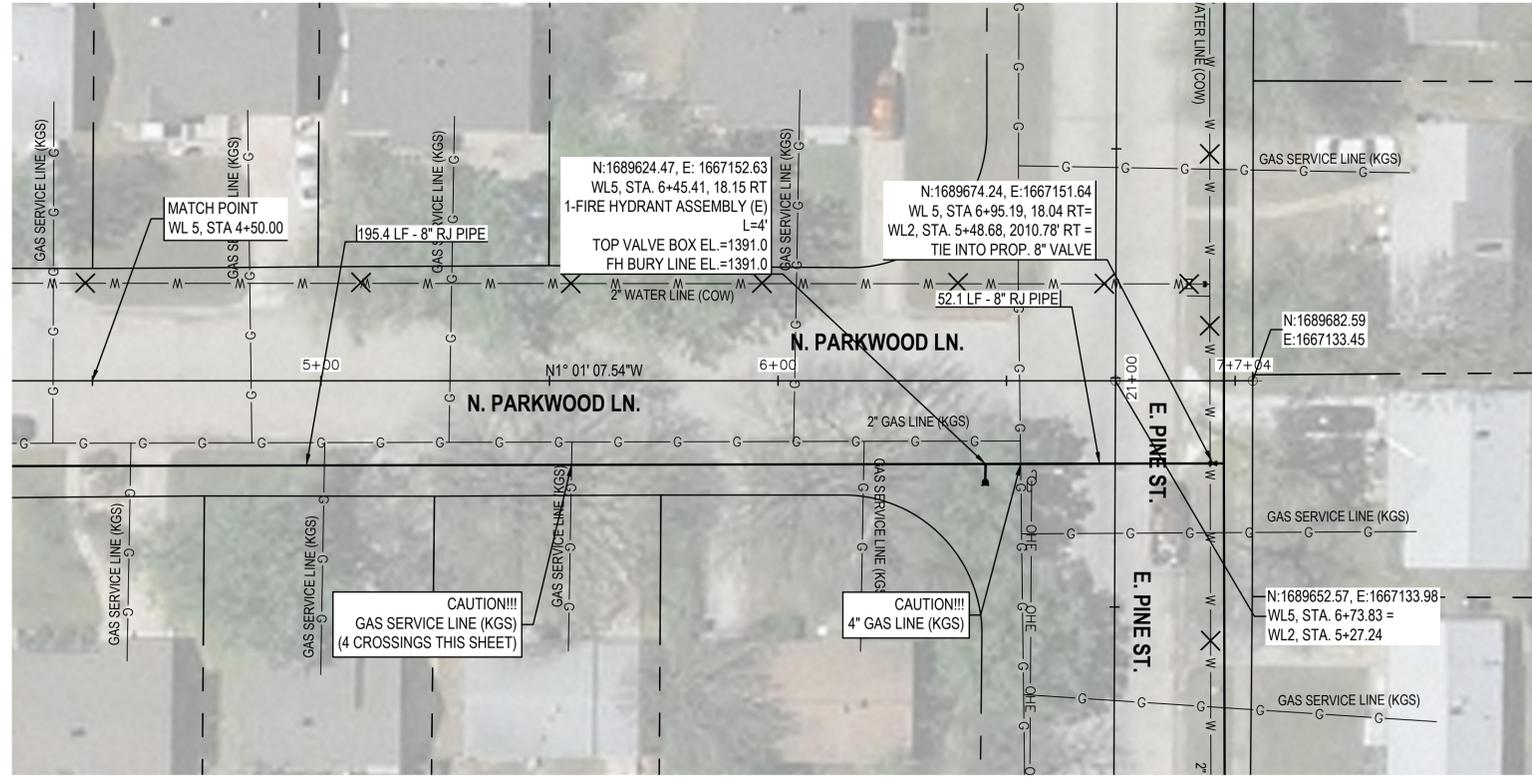
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PROJECT:
EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS
LOCATION

DESIGNED BY: EJB
DRAWN BY: HZ/ACG
CHECKED BY: EJB
DATE: Sep-25



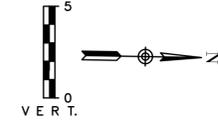
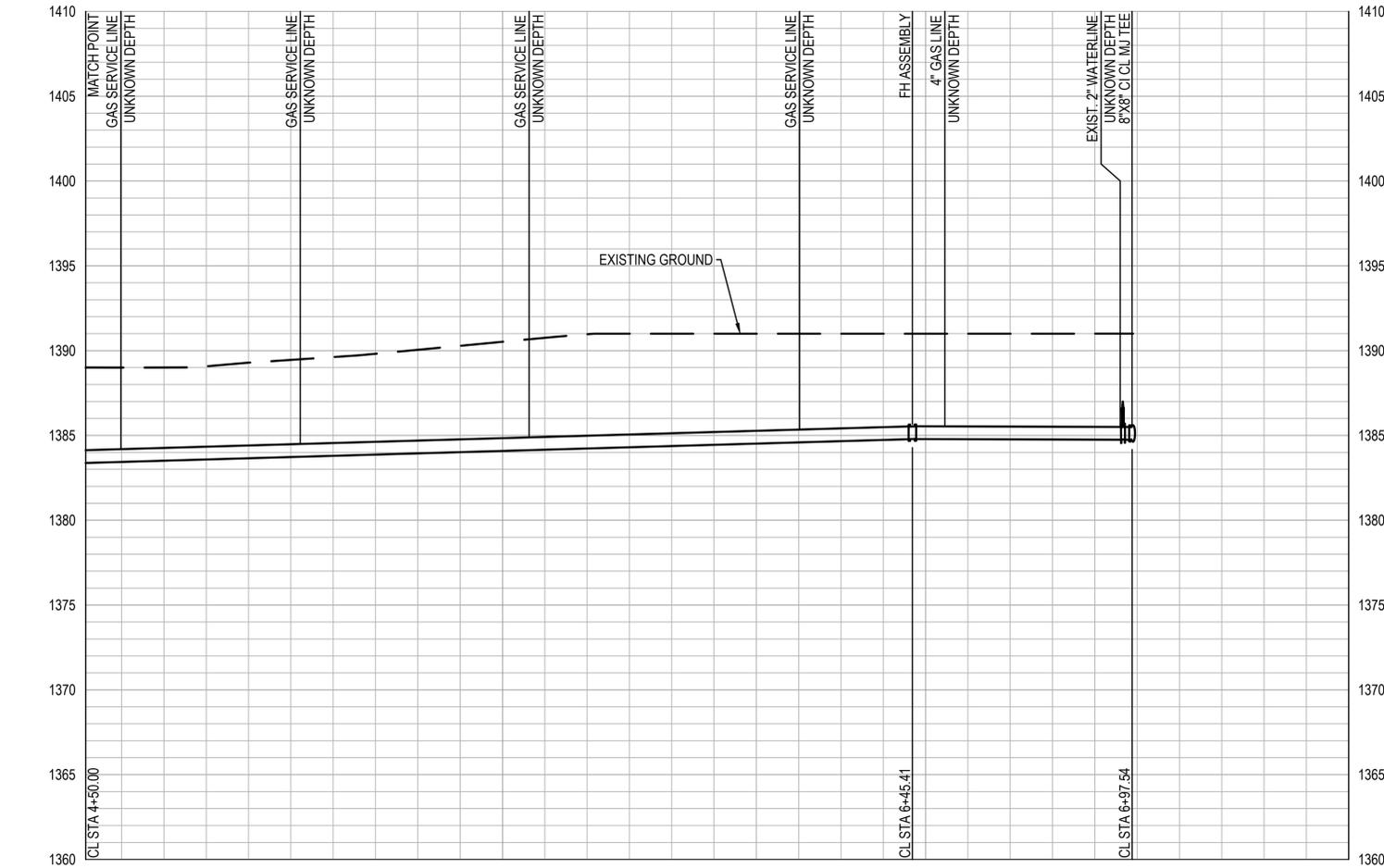
PROJECT NO.
8275000434

SHEET NO.
20
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	3
SHORT SERVICES	4



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 WICHITA, KANSAS 67202
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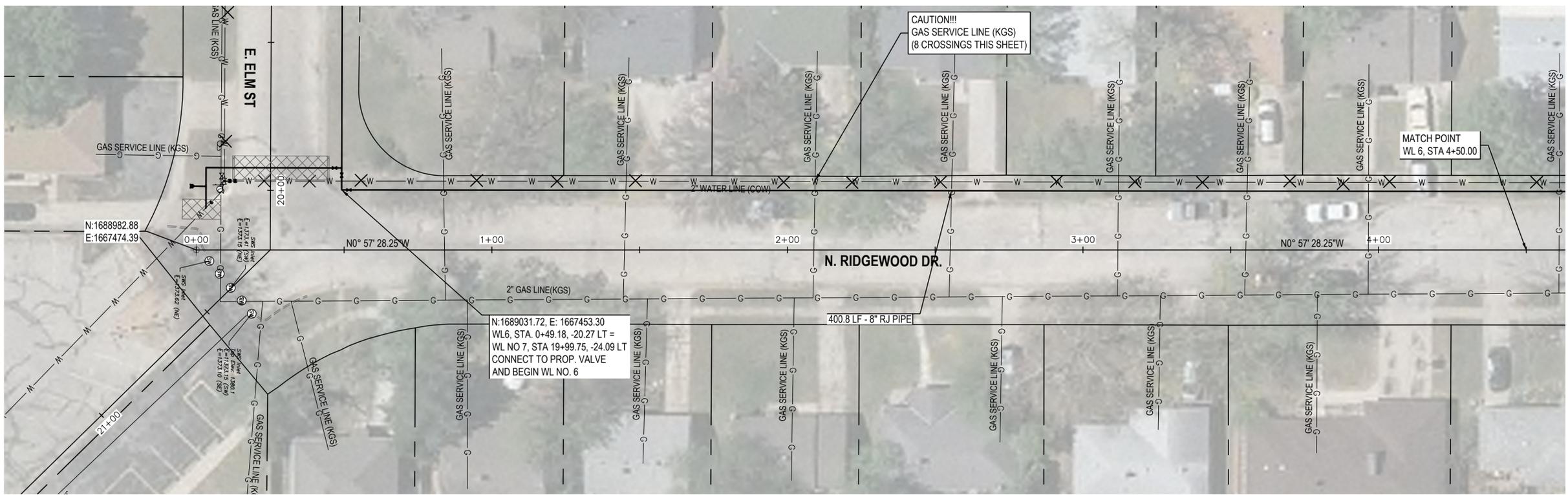
N. PARKWOOD LN. 4+50.00 - 7+00.00
 PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
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 DATE: Sep-25



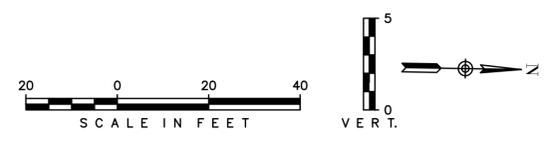
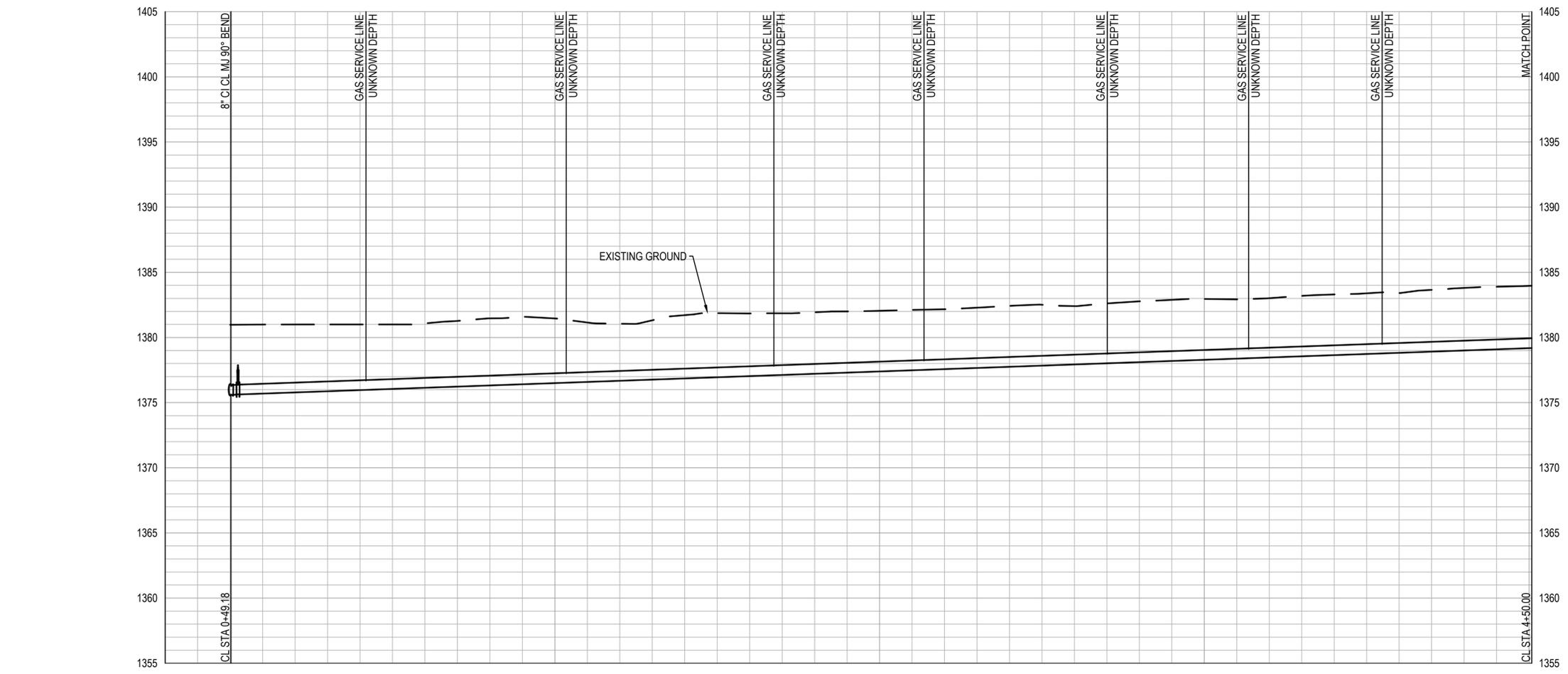
PROJECT NO.
8275000434

SHEET NO.
21
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	7
SHORT SERVICES	7



REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

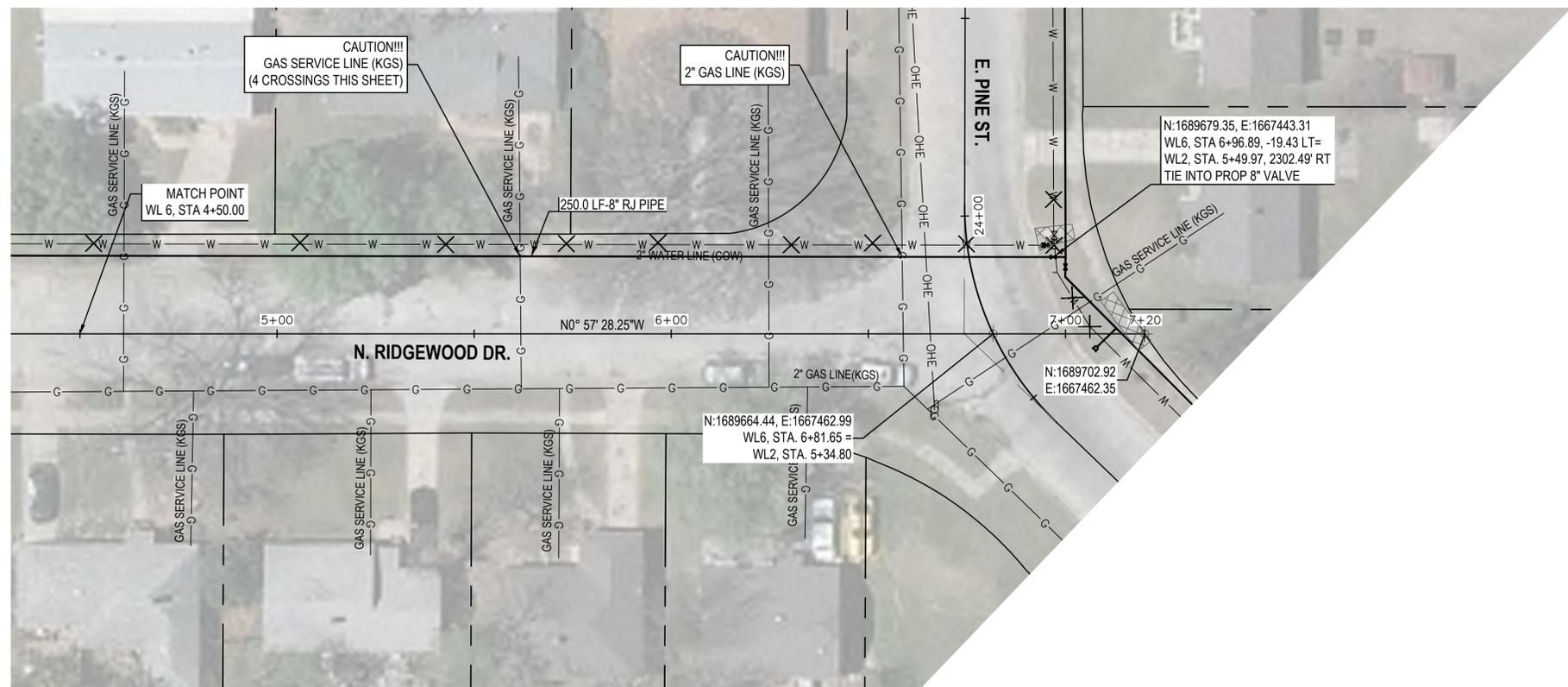
N. RIDGEWOOD DR. 0+00.00 - 4+50.00
 PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



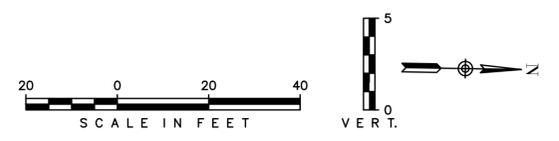
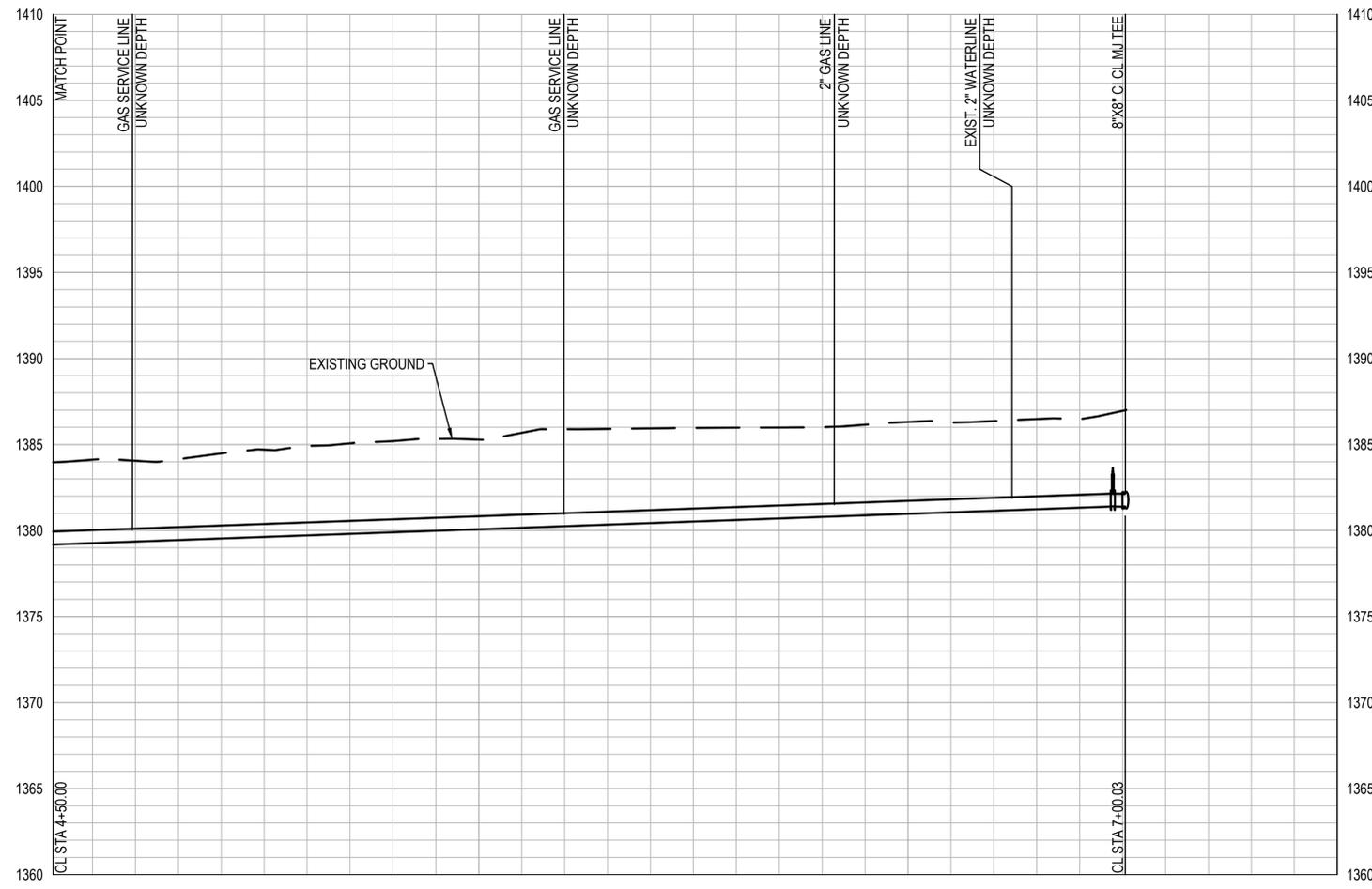
PROJECT NO.
8275000434

SHEET NO.
22
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	4
SHORT SERVICES	3



REVISIONS:

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 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

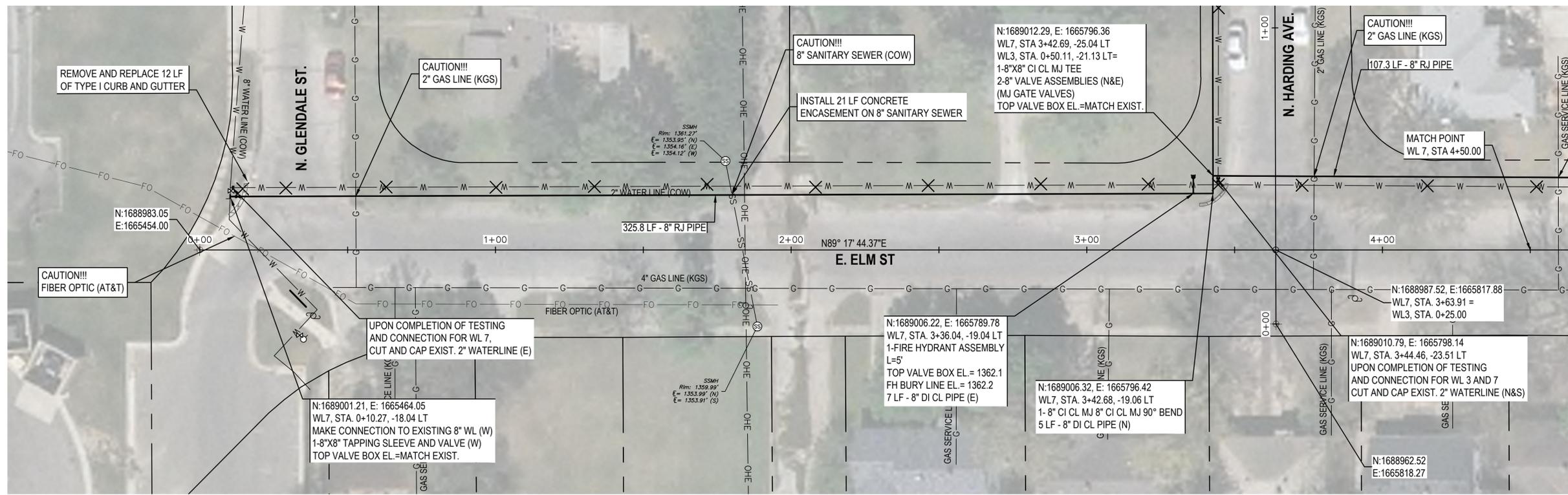
N. RIDGEWOOD DR. 4+50.00 - 7+20.00
 PROJECT: EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



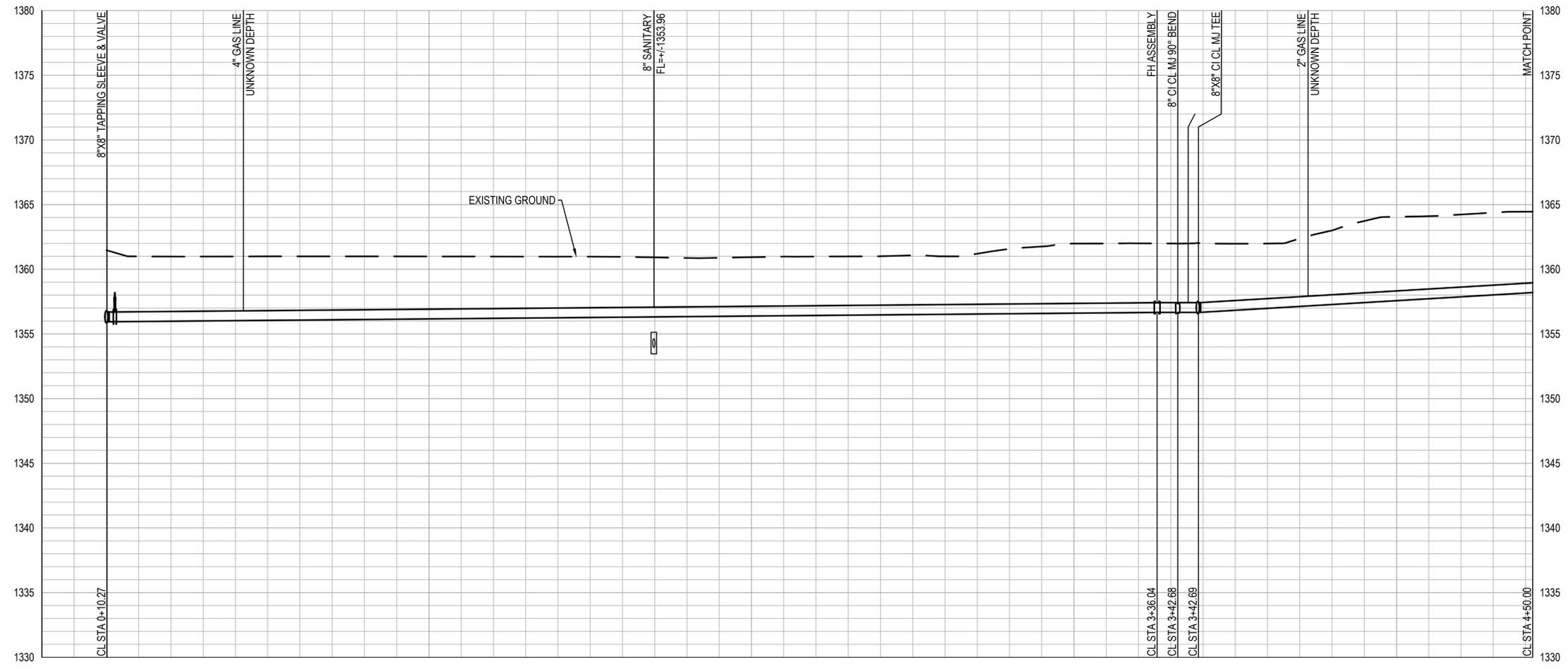
PROJECT NO.
8275000434

SHEET NO.
23
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	7
SHORT SERVICES	1



REVISIONS:

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

E. ELM ST. 0+00.00 - 4+50.00
EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS

PROJECT: LOCATION

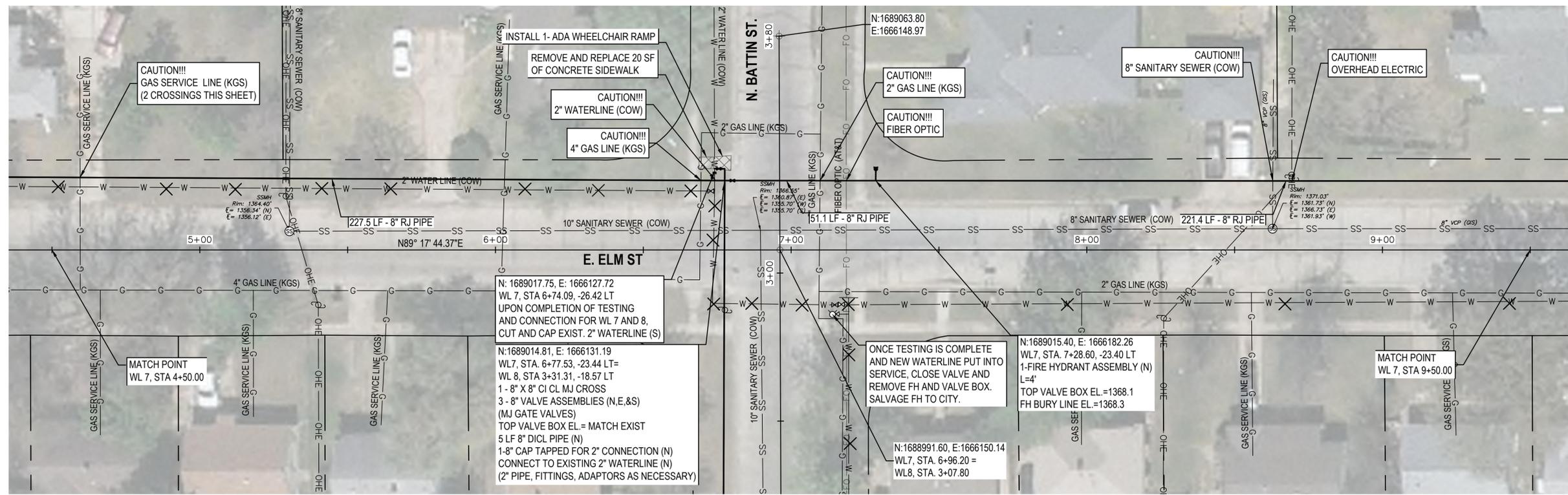
DESIGNED BY: EJB
DRAWN BY: HZ/JCG
CHECKED BY: EJB
DATE: Sep-25

CITY OF WICHITA

ANGEL C. GUTERREZ
LICENSED PROFESSIONAL ENGINEER
30826
9-2-25
KANSAS

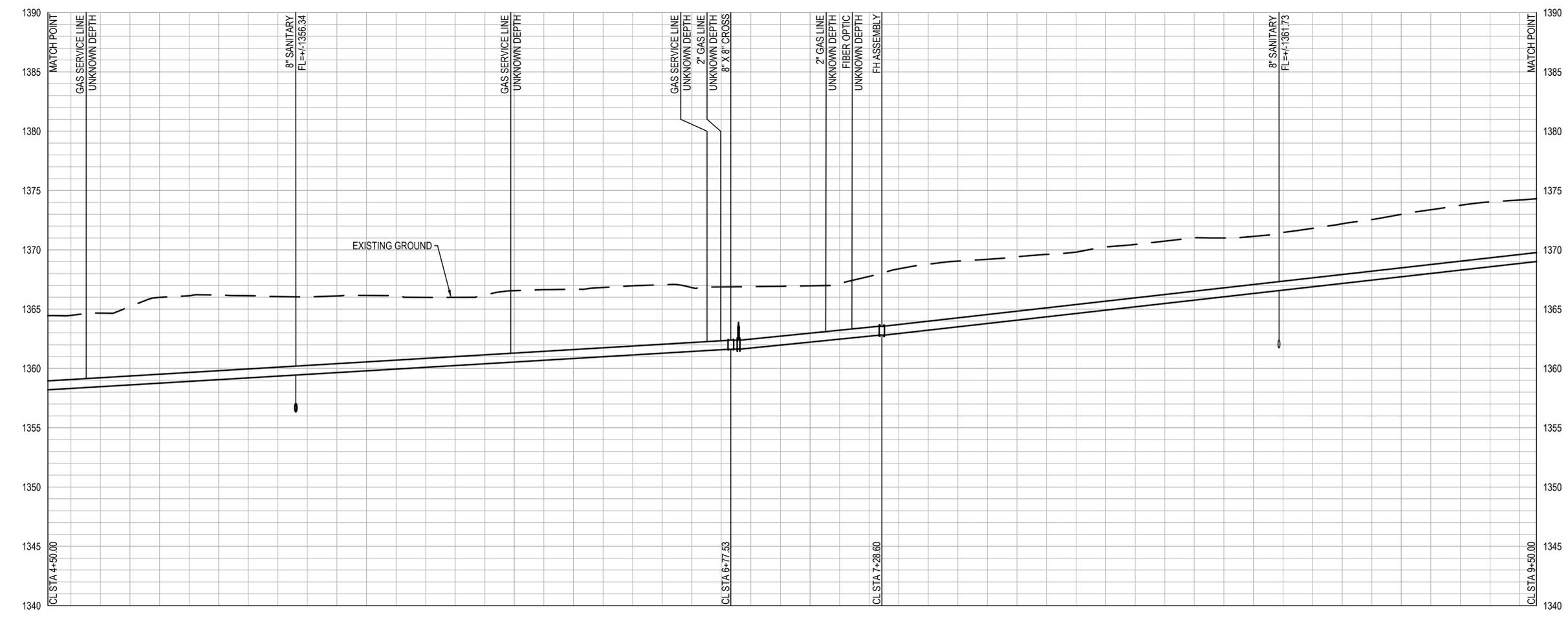
PROJECT NO.
8275000434

SHEET NO.
24
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	8
SHORT SERVICES	2



REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

E. ELM ST. 4+50.00 - 9+50.00

EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

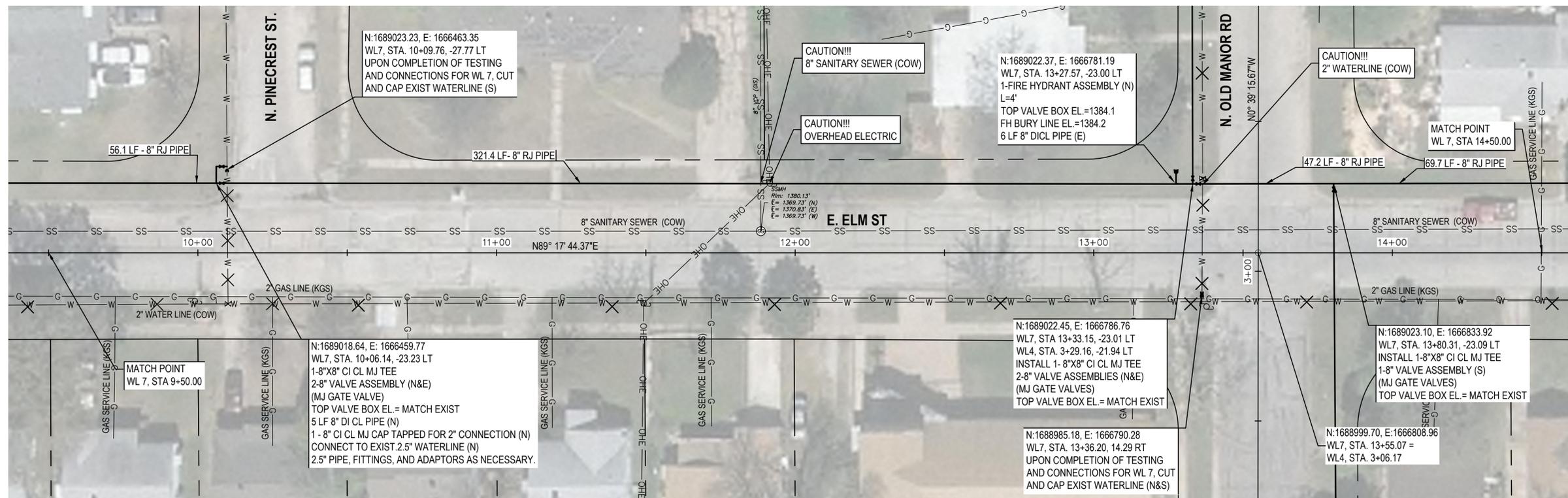
PROJECT LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



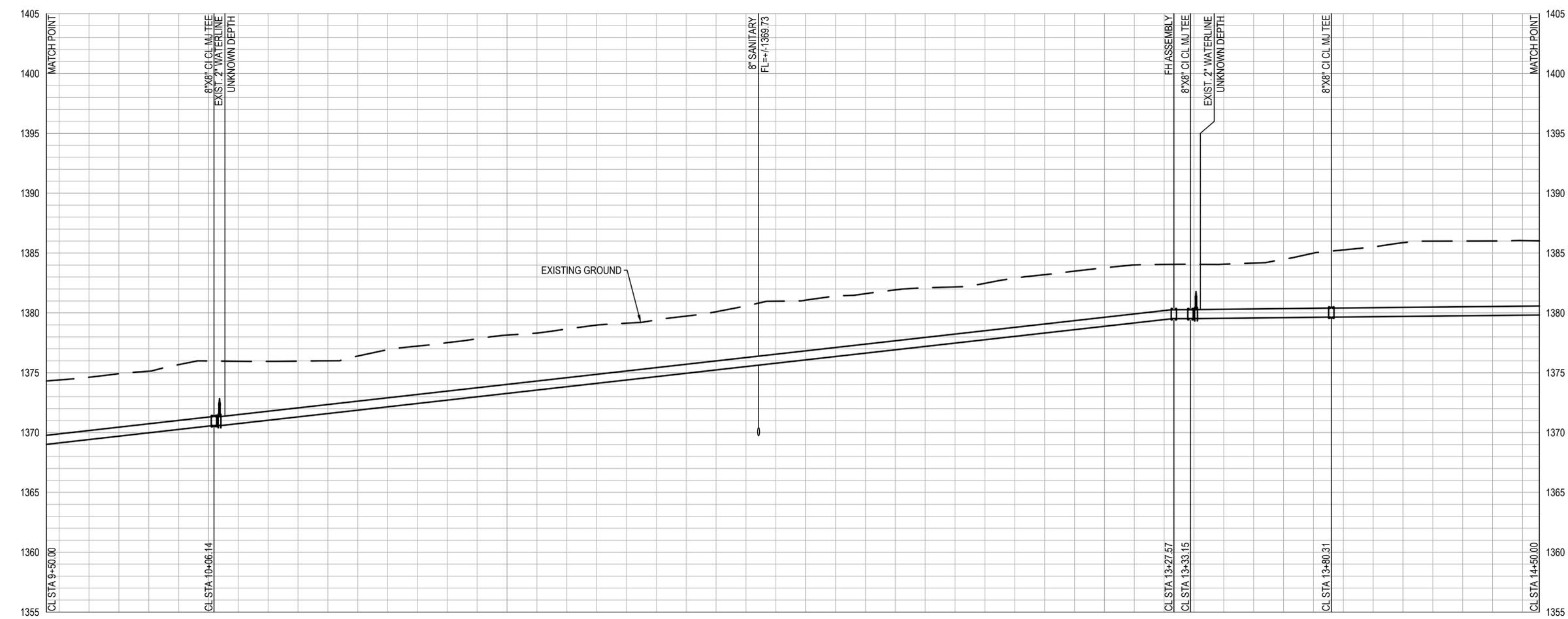
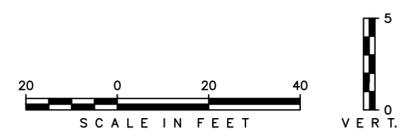
PROJECT NO.
8275000434

SHEET NO.
25
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	7
SHORT SERVICES	2



REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

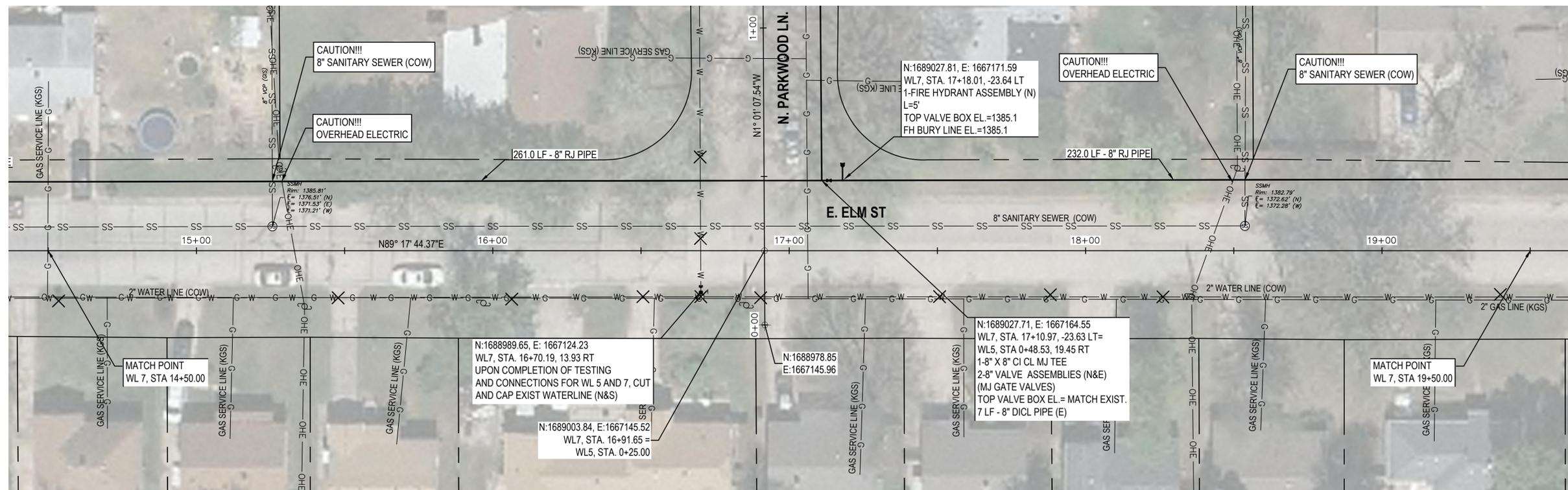
E. ELM ST. 9+50.00 - 14+50.00
 EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS
 LOCATION

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



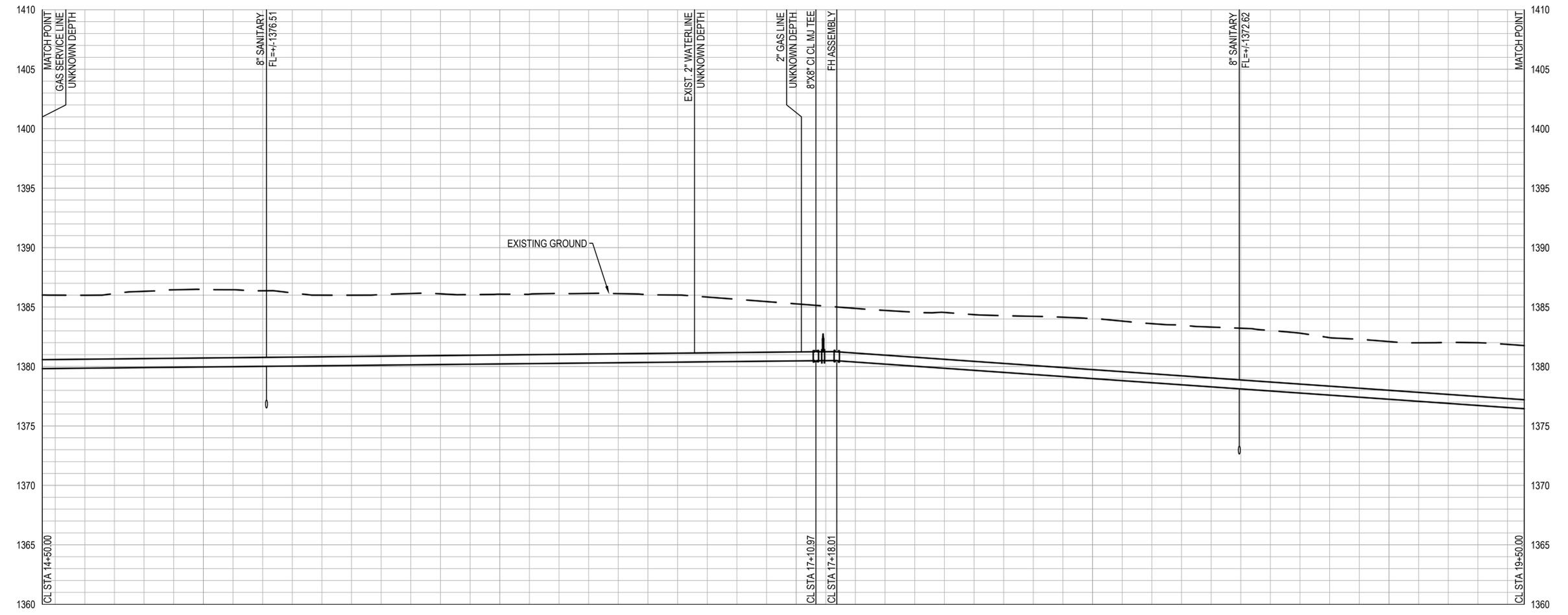
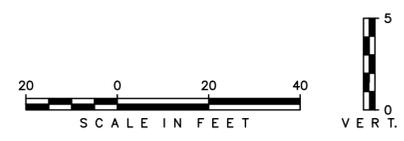
PROJECT NO.
8275000434

SHEET NO.
26
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	9
SHORT SERVICES	1



REVISIONS:

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

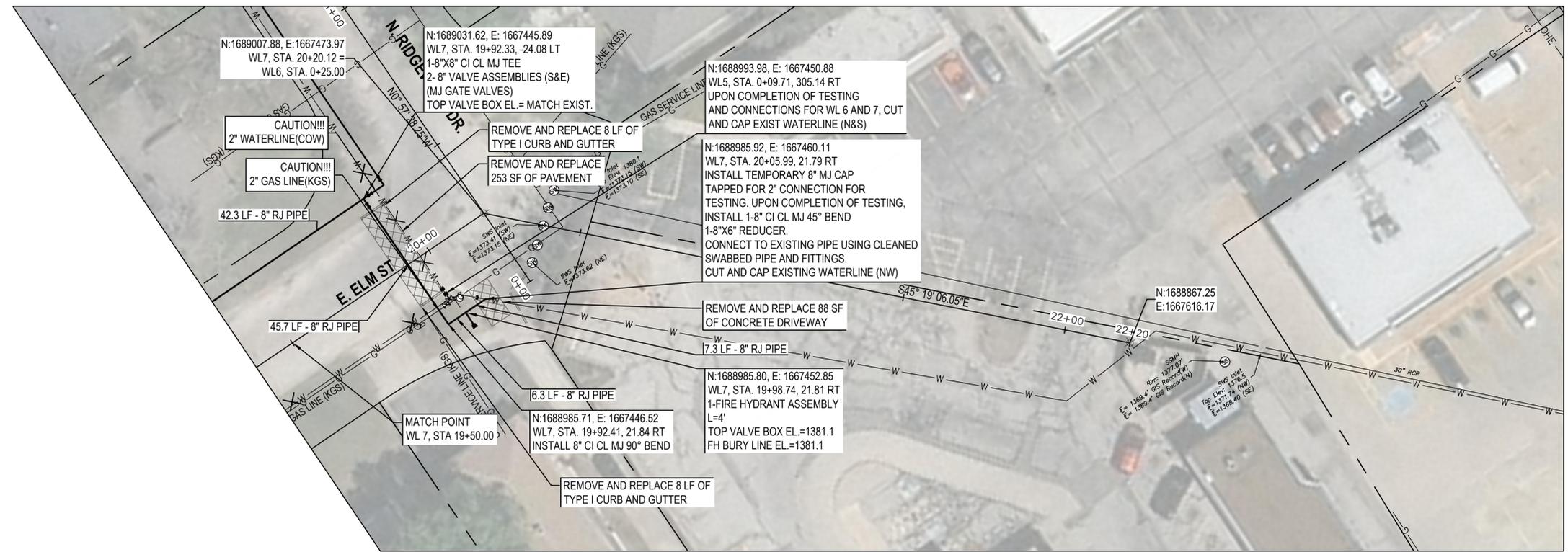
E. ELM ST. 14+50.00 - 19+50.00
 EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Jun. 3, 22



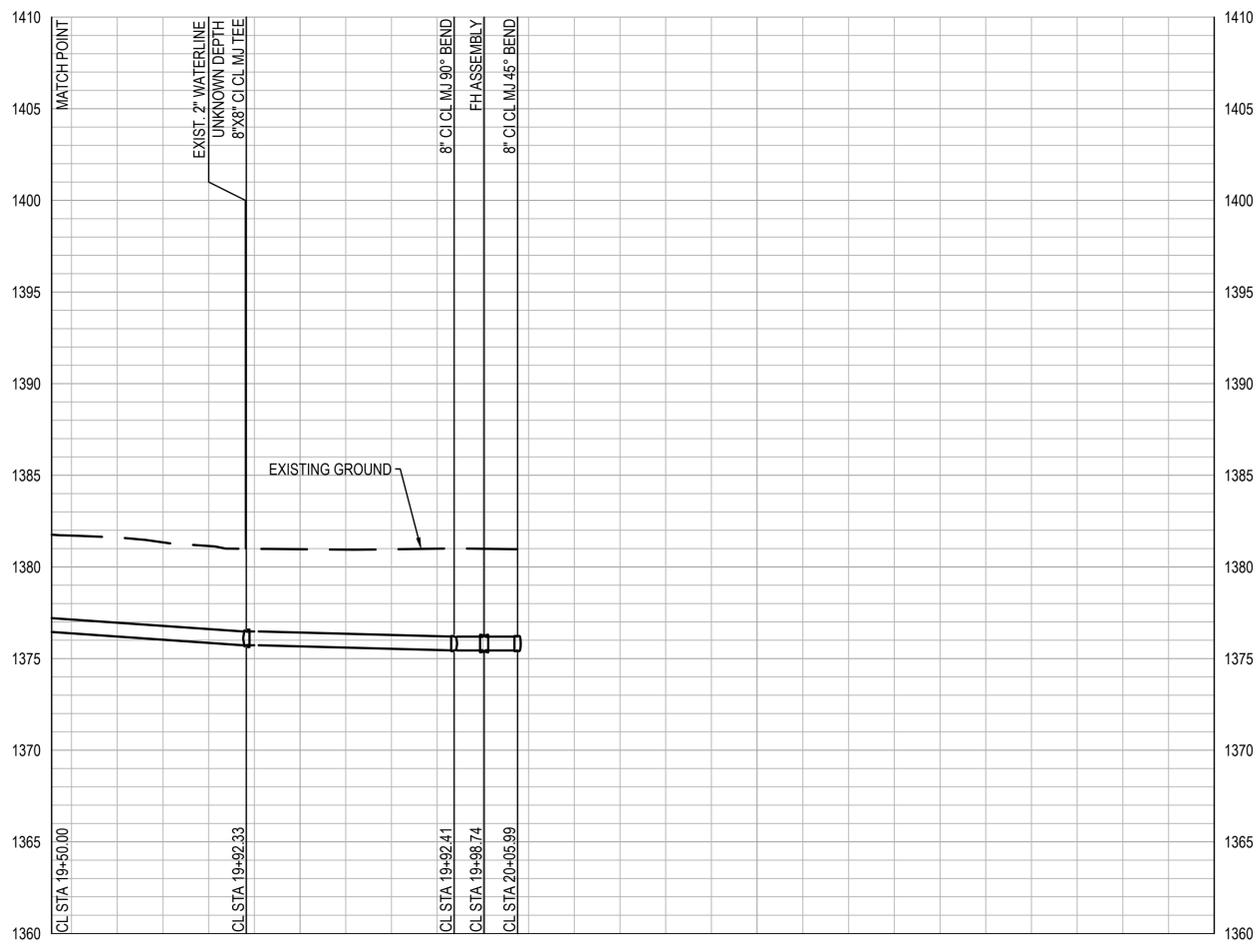
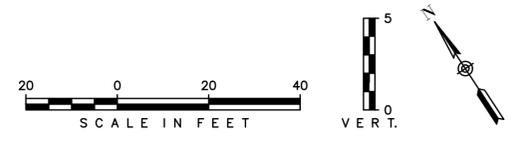
PROJECT NO.
8275000434

SHEET NO.
27
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	1
SHORT SERVICES	-



NO.	DESCRIPTION

WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
 FAX: 316-448-2711

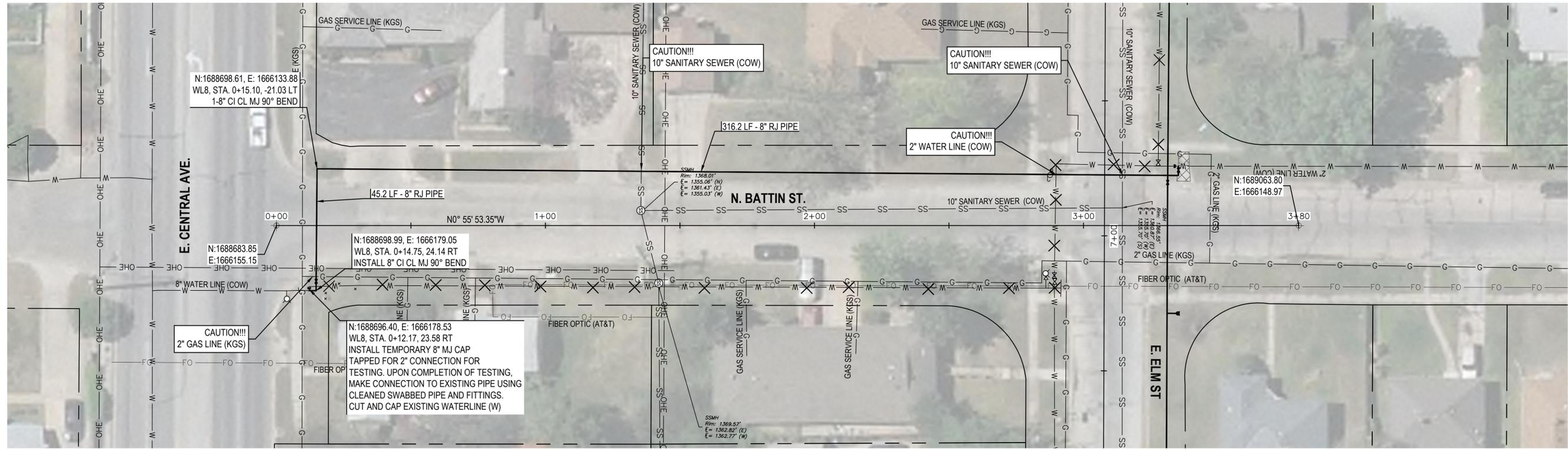
E. ELM ST. 19+50.00 - 22+05.99
 EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E MURDOCK, WICHITA, KS

DESIGNED BY: EJB
 DRAWN BY: HZ/ACG
 CHECKED BY: EJB
 DATE: Sep-25



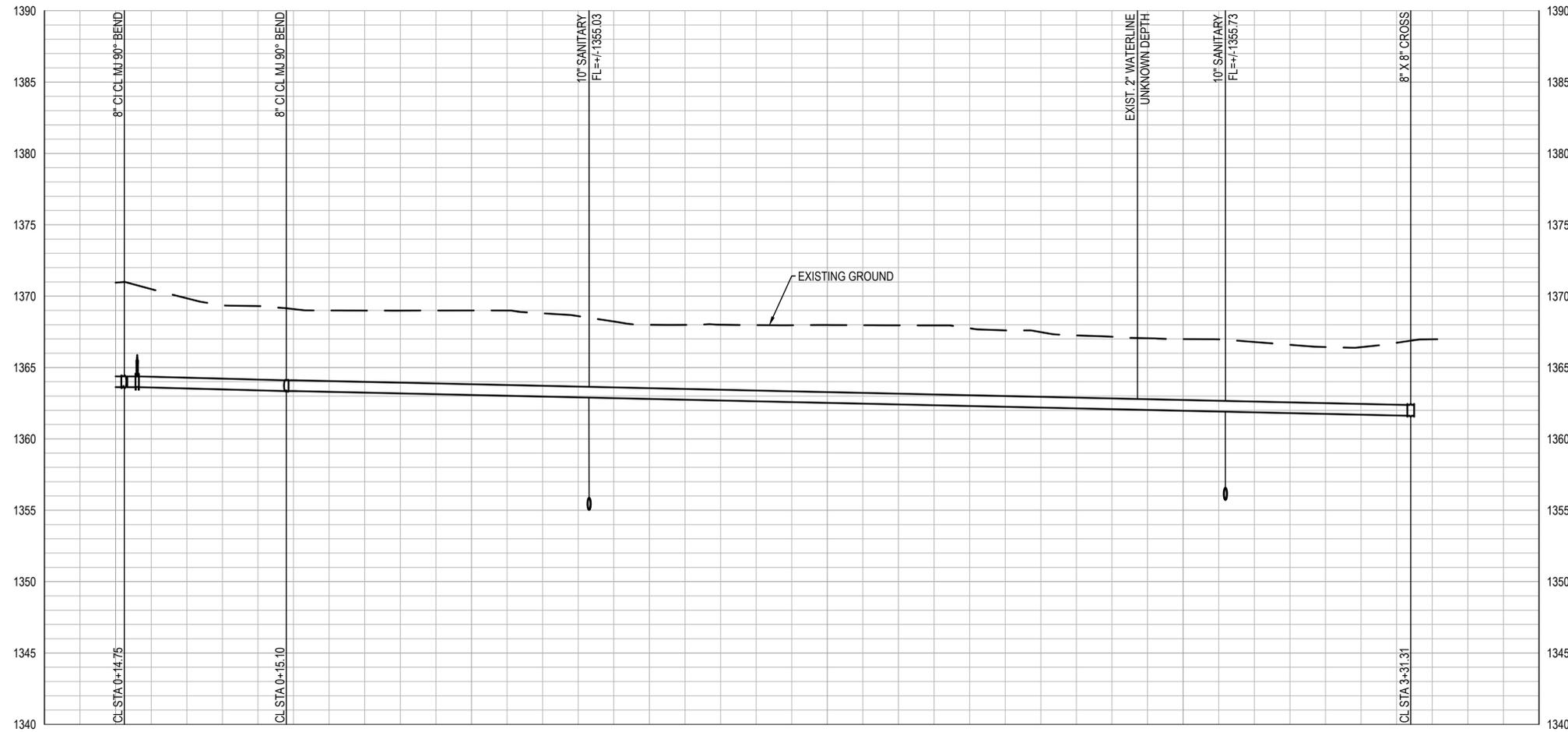
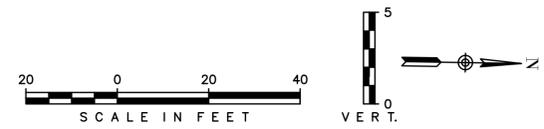
PROJECT NO.
8275000434

SHEET NO.
28
OF 36



X - DENOTES EXISTING WATERLINE TO BE ABANDONED

SERVICES REQUIRED THIS SHEET	
LONG SERVICES	2
SHORT SERVICES	1



REVISIONS:

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
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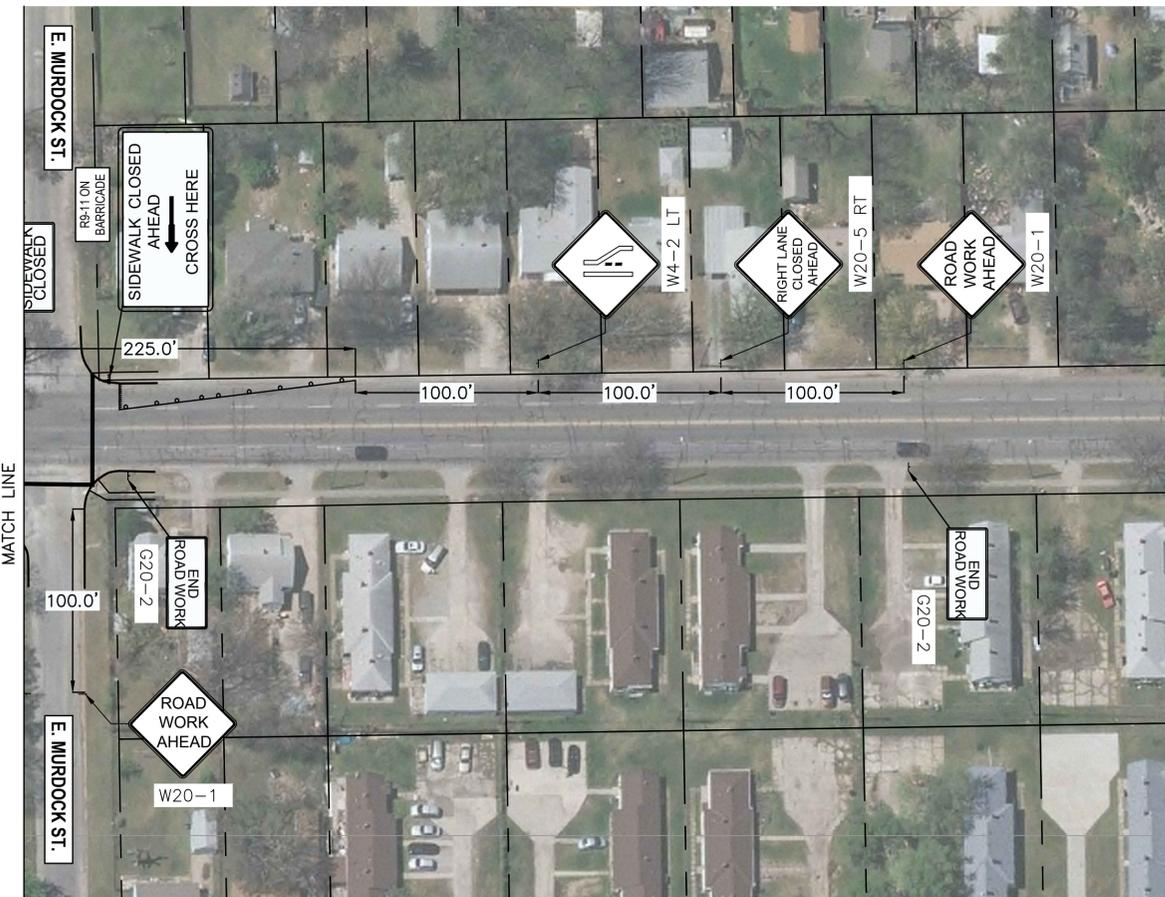
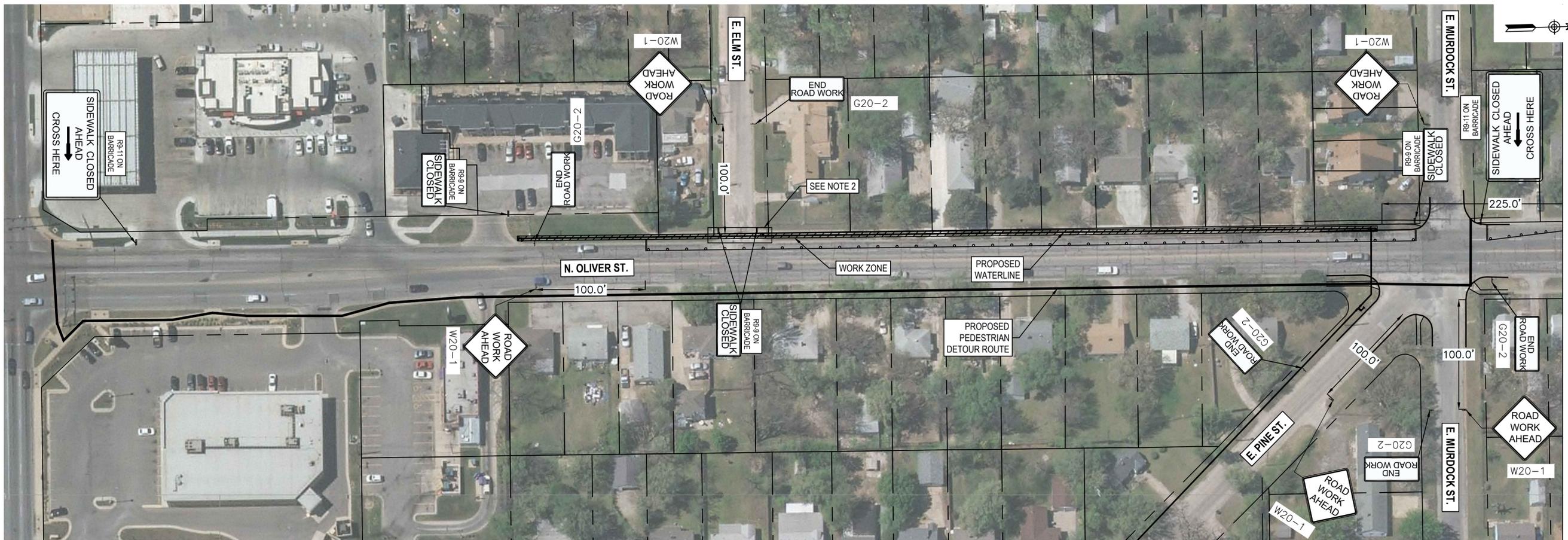
N. BATTIN ST. 0+00.00 - 3+80.00
PROJECT: EAST HIGHLANDS WMR PHASE 2
N OLIVER AND E MURDOCK, WICHITA, KS
LOCATION

DESIGNED BY: EJB
DRAWN BY: HZ/ACG
CHECKED BY: EJB
DATE: Sep-25



PROJECT NO.
8275000434

SHEET NO.
29
OF 36



LEGEND	
± = SIGN	▨ = WORK SPACE
○ = REFLECTORIZED DRUMS OR FLUORESCENT ORANGE CONES OR SLIMLINE CHANNELIZERS	— = PEDESTRIAN DETOUR
	= TYPE 3 BARRICADE

- NOTES**
1. THE DRIVEWAYS IN THE AREA SHALL REMAIN UNOBSTRUCTED FOR ACCESS. ALL TRAFFIC CONTROL ITEMS SHALL REMAIN IN PLACE UNTIL ALL WORK HAS BEEN COMPLETED.
 2. THE CONTRACTOR SHALL INSTALL WATERLINE THROUGH THE INTERSECTION AT E. ELM ST. & N. OLIVER ST. SUCH THAT THE INTERSECTION REMAINS OPEN AT ALL TIMES.

REVISIONS:


WSP USA
 245 N. WACO AVENUE, SUITE 110
 WICHITA, KANSAS 67202
 PHONE: 316-448-2711
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TRAFFIC CONTROL PLAN - 2
 EAST HIGHLANDS WMR PHASE 2
 N OLIVER AND E. MURDOCK, WICHITA, KS

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 DATE:

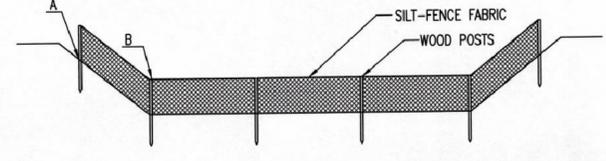


PROJECT NO.

SHEET NO.
31
 OF 36

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NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN IN DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

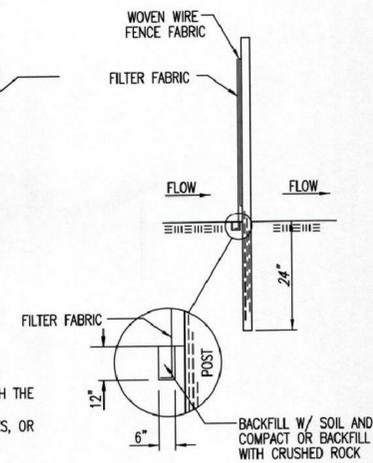
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK—NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

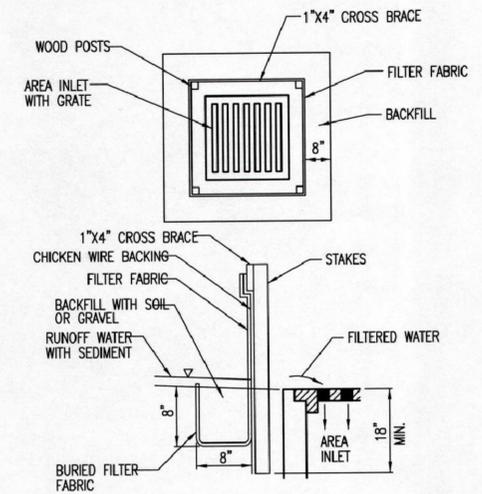
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

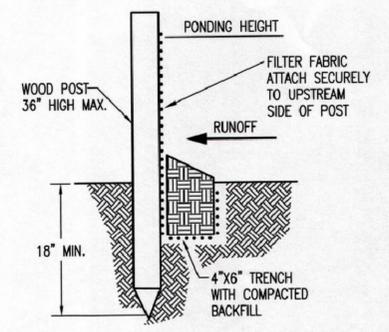
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND—SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013



SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		



REVISIONS:

WSP USA
245 N. WACO AVENUE, SUITE 110
WICHITA, KANSAS 67202
PHONE: 316-448-2711
FAX: 316-448-2711

SILT FENCE AND BARRIER DETAILS
EAST-HIGHLANDS WMR PHASE 2
OLIVER AND CENTRAL, WICHITA, KS
LOCATION

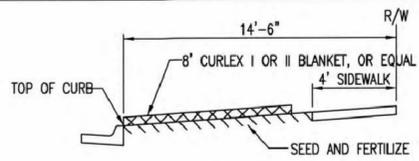
DESIGNED BY: EJB
DRAWN BY: HZ
CHECKED BY: EJB
DATE: Sep-25



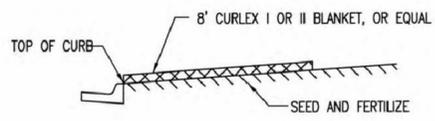
PROJECT NO.
8275000434

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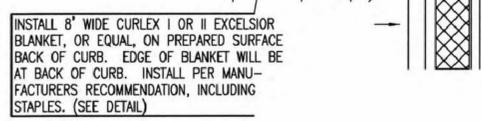
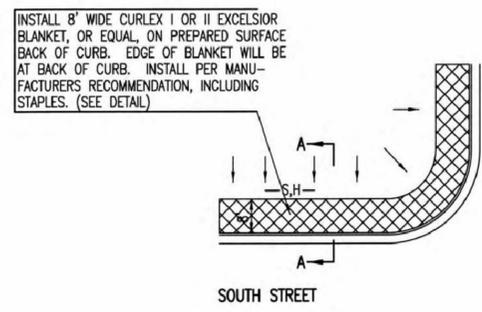
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SECTION B-B



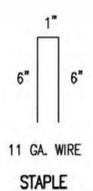
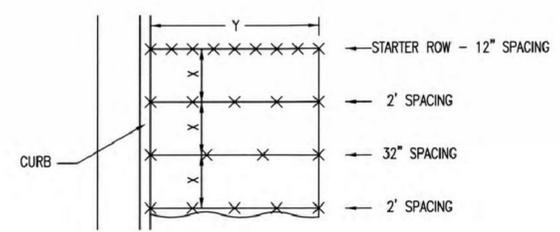
SECTION A-A



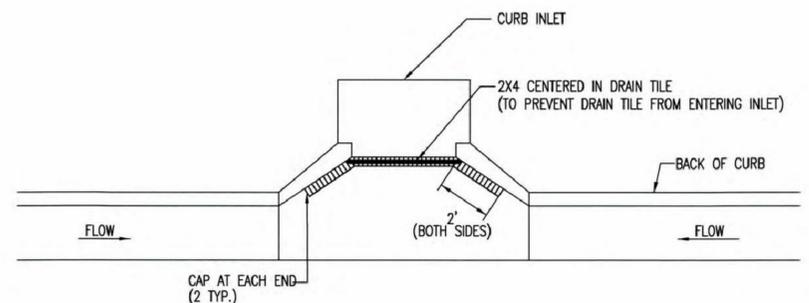
GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL

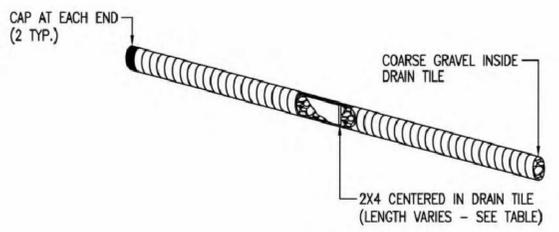


DETAILS FOR APPROVED EROSION CONTROL MAT

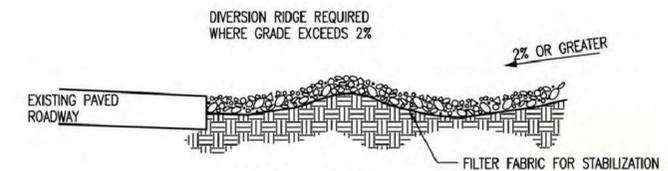


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

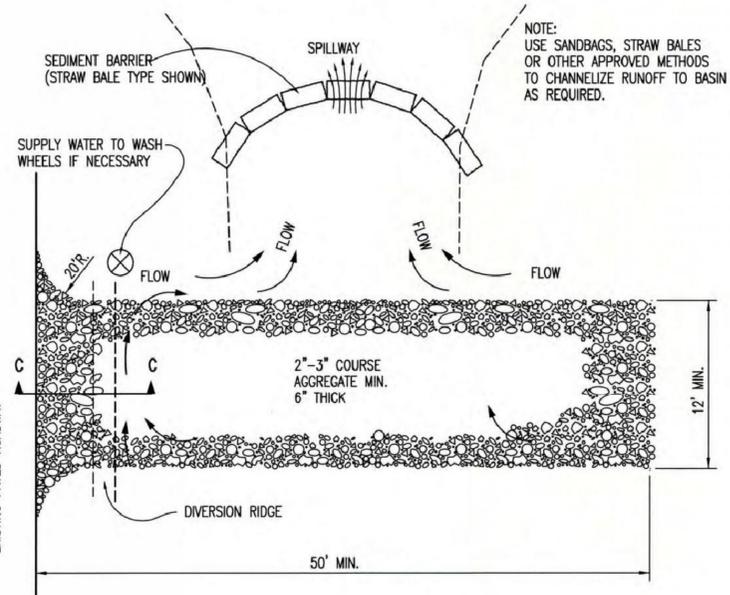
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.



REVISION DATE: MAY 2013		
BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE		
CITY ENGINEER GARY JANZEN, P.E.		
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CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET

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BACK OF CURB PROTECTION DETAIL
EAST HIGHLANDS WMR PHASE 2
OLIVER AND CENTRAL, WICHITA, KS
LOCATION

DESIGNED BY: EJB
DRAWN BY: HZ
CHECKED BY: EJB
DATE: Sep-25



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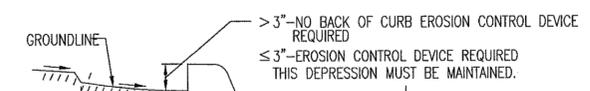
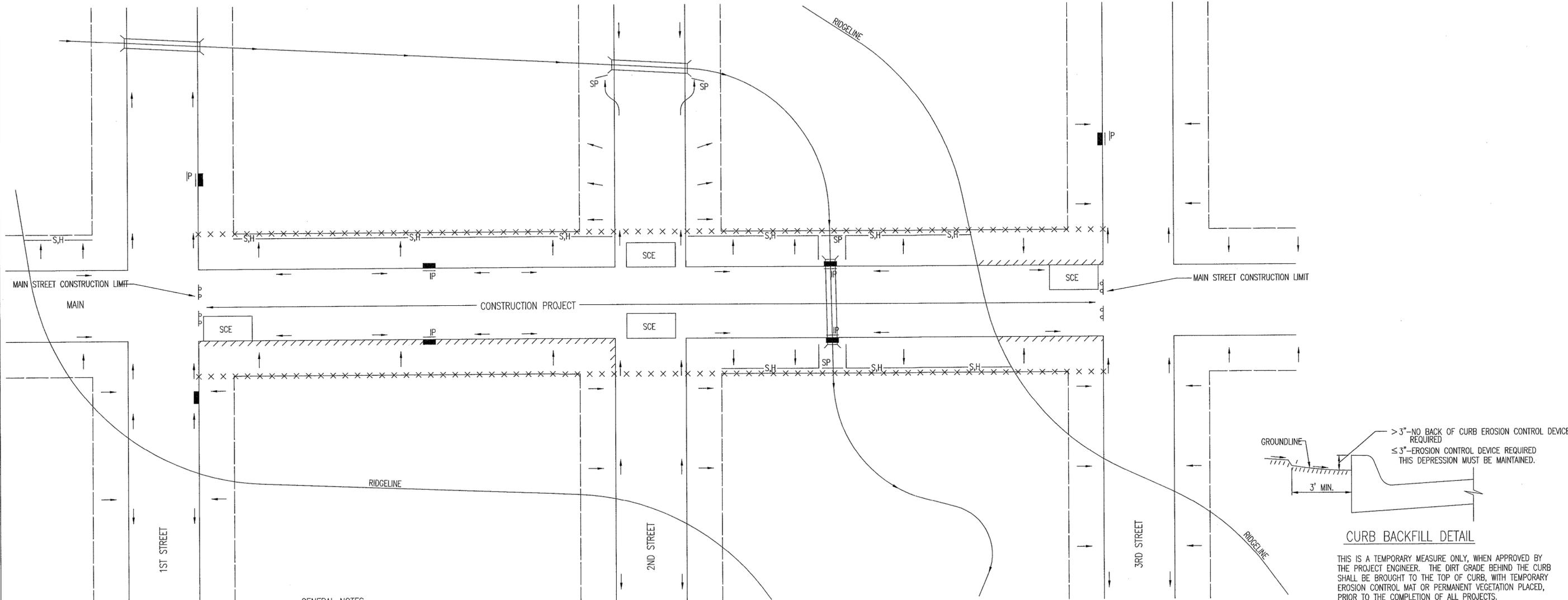
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GENERAL NOTES

- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
- IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
- FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
- FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
- THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
- INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
- ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
- THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
 - THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)
 - THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
 - ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- x x x x R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S,H- SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- //// BACK OF CURB PROTECTION



STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
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